CONTENTS OF SUPPLEMENT.

PERSONAL 97
Obituary 97
ENGINEERING SOCIETIES 97
Coming Meetings 97
NEW PUBLICATIONS 97
Trade Publications 97
CONSTRUCTION NEWS:
Condensed List of Contracts Pending 97
Railways 98
Street and Electric Railways 98
Electric Light and Power 99
Bridges 99
Buildings 100
Water-Works 101
Sewerage 101
Garbage Disposal and Street Cleaning 102
Streets and Roads 102
Manufacturing Plants 102
Miscellaneous Contracts 103
Foreign Contracts and Export News 103
Contract Prices 104
INDUSTRIAL NOTES 104

PERSONAL.

Mr. A. E. Mitchell has resigned as Mechanical Superintendent of the Erie R. R.

Mr. Chas. S. Warner, Civil Engineer, formerly at 71 Broadway, New York, now has offices at 29 Broadway.

Mr. John G. Van Horne, M. Am. Soc. C. E., has removed his office from 71 Broadway to 29 Broadway, New York.

Mr. Clifford C. Haskins, Civil Engineer of Adams, Mass., and Miss Sarah A. Browne, of North Adams, were married on Sept. 18.

Hon. Henry C. Begole, of Belleville, Ill., has been appointed Receiver of the St. Louis, Vandalia & Terre Haute R. R.

Mr. W. J. Olcott has been elected President of the Duluth, Misabe & Northern R. R., succeeding Mr. F. T. Gates, resigned.

Mr. F. T. Robertson, Superintendent of the Montana R. R., has been appointed Chief Engineer in addition to his other duties.

Mr. W. S. Graffam, B.S., has been appointed Superintendent of Shops in the Clarkson School of Technology, at Potsdam, N. Y.

Mr. J. H. Glover, Superintendent of the Connellsville Division of the Baltimore & Ohio R. R., has resigned to go into private business.

Mr. John Waterhouse, M. Am. Soc. C. E., has opened an office at 29 Broadway, New York. He formerly was located at 71 Broadway.

Mr. O. O. Wagle has been appointed to succeed Mr. Simpson as Superintendent of the city electric light and water-works of Valley City, N. Dak.

Mr. E. L. Masqueray, of New York, has been selected as Chief Designer for the Louisiana Purchase Exposition at St. Louis, Mo. Mr. Masqueray is 40 years of age.

Messrs. Waddell & Hedrick, Consulting Engineers, have removed their offices from the Gibraltar Building, Kansas City, Mo., to the New Nelson Building, in that city.

Mr. F. M. Burke has resigned as Superintendent of the Terre Haute Electric Co., to become General Superintendent of the El Paso & Juarez Ave. Street Ry., of El Paso, Texas.

Mr. M. S. Darrow, formerly of the U. S. Engineer Office, Chicago, Ill., is now in the Engineer Corps of the Chicago & North Western R. R., with headquarters at Mason City, Ia.

Mr. E. J. Randall has resigned as Acting Chief Engineer of the Toledo, St. Louis & Western Ry., to accept a position with the Bessemer & Lake Erie R. R. at Pittsburg, Pa.

Mr. Robert S. Towns has been appointed Superintendent of the Washburn, Bayfield & Iron River R. R., with headquarters at Washburn, Wis., succeeding Mr. E. Stanton, resigned.

Messrs. Norman C. Sawers and D. McNaught, of the Indiana Rubber, Gutta Percha & Telegraph Works Co., Ltd., of Silvertown, London, E., have sailed for England after a month's stay in the United States.

Mr. P. J. Nichols, formerly General Superintendent of the Nebraska Division of the Union Pacific road, has been appointed Superintendent of the Union Depot & Ry. Co., of Denver, Colo., to succeed Mr. P. Touchy, resigned.

Mr. James A. Seddon, formerly U. S. Assistant Engineer, Chicago, has associated himself with Mr. Thos. T. Johnson, with offices in the Security Building, Chicago, and will carry on a consulting practice in engineering.

Prof. John A. Fleming, of the United States Coast and Geodetic Survey, has arrived in Honolulu for the purpose of erecting and maintaining, near Pearl Harbor, a station for observing and recording the variations of the compass.

Mr. J. H. Green, formerly Superintendent of the Bangor, Hampden & Winterport Street Ry., has been appointed Superintendent of Construction of the Bangor Street Ry. and the Bangor, Orono & Old Town Street Ry., in addition to his present duties.

Mr. C. E. Rogers has been appointed Instructor in Civil Engineering at the Lehigh University, Pa. Mr. Rogers is a graduate of the Rensselaer Polytechnic Institute of Troy, N. Y., and for the past few years has been employed in the City Engineering Department of North Adams, Mass.

Mr. Austin Lord Bowman, M. Am. Soc. C. E., M. Am. Soc. M. E., Consulting Engineer, heretofore with offices at 71 Broadway, New York, has removed to 29 Broadway.

Prof. Edward W. Bemis has been appointed Superintendent of Water-Works of Cleveland, O., to succeed Mr. M. W. Kingsley, M. Am. Soc. C. E. Professor Bemis was appointed to the position by Mayor Thos. L. Johnson, and it is said contemplates the extensive introduction of meters in the city.

Mr. R. M. Mitchell has been appointed Division Engineer of the Morris & Essex Division, Main Line Division, between Hampton Junction and Portland, and the Bangor & Portland Ry., of the Delaware, Lackawanna & Western R. R., with headquarters at Hoboken, N. J., succeeding Mr. Chas. S. Millard, resigned.

Mr. F. H. Newell, Chief Hydrographer of the United States Geological Survey, has recently returned to Washington from an inspection trip to Colorado, Utah, Idaho and Oregon. In the latter state he made a rapid reconnoissance, starting from the Dalles and driving up Deschutes River, then easterly along Crooked River and down Malheur River a distance of about 525 miles. On this trip he was accompanied by Mr. Gifford Pinchot, Chief of the Forestry Bureau, and also by Mr. Malcolm A. Moody, Member of Congress from Eastern Oregon. The conditions of the water resources and the possibilities of storage were considered, and also the character and importance of the forestry growth on the mountains adjacent to the desert areas. Mr. Arthur P. Davis, hydrographer of the United States Geological Survey, and serving as Consulting Engineer for reservoir surveys in Arizona and adjacent states, has also returned to Washington, and is preparing a report upon various reservoir surveys during the field season of 1901.

OBITUARY

Mr. J. G. Durbin, who died at his home in York, Pa., on April 30, 1901, was a graduate of the Rensselaer Polytechnic Institute, of Troy, N. Y. He formerly was City Engineer of York, but resigned that position three years ago to open an office in that city for the purpose of carrying on a consulting practice. Mr. Durbin was 44 years of age, and had established an excellent professional reputation by the character and accuracy of his work.

ENGINEERING SOCIETIES.

COMING MEETINGS.

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION.
Sept. 25 and 26. Annual meeting at Niagara Falls, N. Y. Secy., C. J. H. Woodbury, Boston, Mass.

NEW YORK RAILROAD CLUB.
Sept. 26 (postponed from Sept. 19). "Brakes in Railroad and Street Car Service." Secy., W. B. Yereance, Brooklyn, N. Y.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 1 to 4. Annual meeting at Niagara Falls, N. Y. Secy., D. L. Fulton, Allegheny, Pa.

AMERICAN INSTITUTE OF ARCHITECTS.
Oct. 3 to 5. Annual meeting at Buffalo, N. Y.

ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION.
Oct. 8-10. Annual meeting at Washington, D. C. Secy., J. B. Dickson, C. & N. W. Ry., Sterling, Ill.

MEMPHIS ENGINEERING SOCIETY.
Oct. 8. "Levee Districts of Arkansas and Missouri." Secy., J. H. Weatherford, Memphis, Tenn.

RAILWAY SIGNALING CLUB.
Oct. 8 and 9. Annual meeting at Buffalo, N. Y. Secy., C. O. Tilton, C., M. & St. P. Ry., W. Milwaukee, Wis.

AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 9 and 11. Annual meeting in New York city

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 15. Annual meeting at Atlanta, Ga. Secy., S. F. Patterson, B. & M. R. R., Concord, N. H.

AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.
Oct. 16. Annual meeting at Buffalo, N. Y. Secy., C. A. Hammond, Mount Vernon, N. Y.

ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION.—The nineteenth annual meeting will be held at Washington, D. C., Oct. 8, 9 and 10, the headquarters being at the National Hotel. The following committee reports are to be presented: (1) Tie-Plates, (2) Does Chemical Treatment of Ties Increase the Hardness of the Wood and the Holding Power of the Spikes? (3) Surfacing Track, (4) Tamping Ties, (5) Burnt Clay Ballast, (6) Are the Best Results Obtained from the Use of Broken or Square Joints on Both Single and Double Track? (7) Results Obtained from the Use of 45-ft. and 60-ft. Rails, (8) Ballasting, (9) The Rail.

J. B. Dickson, Secy., Sterling, Ill.

NEW PUBLICATIONS.

COMPILATION OF WAGES IN COMMERCIAL COUNTRIES FROM OFFICIAL SOURCES.—15th Annual Report of the Commissioner of Labor, Hon. Carroll D. Wright, 1900. Two volumes. Cloth; 5¾ × 9 ins.; pp. 1,642 in total. Address, Bureau of Labor, Washington, D. C.

This compilation covers the lowest, highest and average rates of wages per day, the hours of work per week for the United States, and the lowest and highest wages and hours for foreign commercial countries. It embodies a total of 714 different reports, with about 900,000 separate quotations; and the latter have been classified under approximately 4,500 occupations and subdivisions of occupations. In all, over 100 foreign countries, colonies and provinces are included in this information. It is emphatically a work of reference, and not a study of the wage question. It is arranged alphabetically by occupations so as to avoid the necessity of preparing an index, which, if properly made, would almost equal the report in volume.

THE AIR-BRAKE ASSOCIATION.—Proceedings of the 8th Annual Convention, held at Chicago, Ill., April 30 to May 3, 1901. Paper; 6 × 9 ins.; pp. 267. Address F. M. Nellis, Secretary, 95 Liberty St., New York city.

The Air-Brake Association is composed of the air-brake experts in the railway service, and in the service of the air-brake manufacturers. A report of its meeting was published in our issue of May 9 last. The present volume gives a verbatim report of the papers and discussions. That upon retaining valves and the handling of trains on grades is especially interesting.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

PNEUMATIC TOOLS.—Chicago Pneumatic Tool Co., Monadnock Block, Chicago, Ill. Paper; 9¼ × 12 ins.; pp. 12; illustrated.

This catalogue completely and handsomely illustrates the form and application of pneumatic tools, as used for hammering rivets, drilling, calking, wood boring, etc. Both compression and pneumatic riveters are included.

DERRICK FITTINGS.—Dobbie Foundry & Machine Co., Niagara Falls, N. Y. Paper; 9 × 6 ins.; pp. 64; illustrated.

This is a very full dimensioned and priced list of derricks of various types and the multitude of castings and fittings used with derricks. Wire rope and rope fittings are included. It is an exceedingly handy book for the desk of a contractor.

WOOD PRESERVING.—The C. A. Manufacturing Co., Austin, Texas. Paper; 3¼ × 6 ins.; pp. 16; illustrated.

This company controls the C. A. wood preserver, a heavy brown oil stain, which it is claimed will impregnate all kinds of wood to a remarkable degree without closing the pores, but forcing out the moisture. It is applied with a brush like paint and can be used as paint. Testimonials from users are included.

LINKS, SHEAVES, WORM WHEELS, ETC.—New Jersey Foundry & Machine Co., 26 Cortlandt St., New York. Paper; 6 × 9 ins.; pp. 22; illustrated.

Catalogue No. 36 is especially devoted to full-size diagrams of chain-links for a great variety of purposes, each numbered so that ordering is made easy. The catalogue also describes worm wheels and worms, spur gears, cut-grooved sheaves and sprocket wheels, for use in connection with flat-link chains.

TROLLEY TRACK AND HANGERS.—Henry B. Newhall, Havermeyer Building, New York. Paper; 6 × 9 ins.; pp. 14; illustrated.

The Coburn trolley track and hanger is applied to heavy doors of all kinds, including fire doors and flush-sliding doors, and also for store-ladder service. The catalogue describes its application and tells you how to order it. Mr. Newhall also supplies material for telephone and telegraph work, and issues for this material a special illustrated price-list.

HEATING AND DRYING APPARATUS.—B. F. Sturtevant Co., Boston, Mass. Paper; 6½ × 9 ins.; pp. 54; illustrated.

This Catalogue No. 118 relates to steam hot-blast heating and drying apparatus, and illustrates and describes the working of the Sturtevant appliances for this purpose. In addition to various types of the hot-blast apparatus we have special thermometers, anemometers, draft gages and water gages for testing fan systems, and a valuable series of tables used in connection with fans.

CONVEYING AND HOISTING MACHINERY.—New Jersey Foundry & Machine Co., 26 Cortlandt St., New York. Paper; 6 × 9 ins.; pp. 30; illustrated.

The tracking system for conveying and hoisting machinery, with its trolleys, hangers, switches, etc., forms the main subject of this catalogue. Though the same company also manufacture fire doors and shutters, special machinery, contractors' supplies of all kinds, the Diamond Expansion bolt and shield. A special catalogue describes the uses and forms of the latter.

BALL AND ROLLER BEARINGS.—The Roller Bearing & Equipment Co., Keene, N. H. Paper; 5 x 7 ins.; pp. 32; illustrated.

This company supplies steel ball or roller bearings, with bushings and shells, for all manner of purposes. Prices and dimensions are given for thrust roller bearings, grooved ball thrust bearings, steel balls from 1-16-in. to 4 ins. diameter, plain roller bearings, and roller bearings with bushing and with bushing and shells. Roller side and center bearings for street railway trucks are a special feature of manufacture.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work.	Place.	See Eng. News.
Sept. 26.	Drainage ditches,	St. Paul, Minn.	Sept. 19
Sept. 26.	Borings,	New York, N. Y.	Sept. 19
	Advertised, Engineering News, Sept. 19.		
Sept. 26.	Road construction,	Rye, N. H.	Sept. 19
Sept. 26.	Drainage ditches,	St. Paul, Minn.	Sept. 19
Sept. 26.	Government building,	Chemawa, Ore.	Sept. 5
Sept. 27.	Sewers,	Quincy, Mass.	Aug. 29
	Advertised, Eng. News, Aug. 29 to Sept. 19.		
Sept. 27.	Road construction,	Nelson, B. C.	Sept. 12
Sept. 27.	Sluice gate, etc.,	Minneapolis, Minn.	Sept. 12

Sept. 27. Dam, Pittsfield, Mass. ..... Sept. 19
Advertised, Engineering News, Sept. 19.
Sept. 27. Pier, Ottawa, Ont. ..... Sept. 19
Sept. 27. Pipe covering, Randall's Island, N. Y. ... Sept. 19
Sept. 27. Sewers, Wooster, O. ..... Sept. 19
Sept. 27. Sewers, etc., Dayton, O. ..... Sept. 26
Sept. 27. Sewers, Buffalo, N. Y. ..... Sept. 26
Sept. 27. Electric lighting, Columbus, O. ..... Sept. 26
Sept. 28. Sewers, Denver, Colo. ..... Sept. 26
Sept. 28. School building, Wenatchee, Wash. ..... Sept. 26
Sept. 28. School house, Bisbee, N. Dak. ..... Sept. 26
Sept. 28. Church, Otterbein, Ind. ..... Sept. 26
Sept. 28. Building infirmatory, Jacksonville, Fla. . Sept. 26
Sept. 28. Navy yard building, Boston, Mass. ..... Sept. 5
Sept. 28. Building, Washington, D. C. ..... Sept. 5
Sept. 30. Dock and dredging, New York, N. Y. ..... Aug. 29
Advertised, Eng. News, Aug. 29 to Sept. 19.
Sept. 30. Bridge superstructure, Fredericton, N. B. . Aug. 22
Advertised, Eng. News, Aug. 22 to Sept. 26.
Sept. 30. Plumbing, etc., Fort Caswell, N. C. ..... Sept. 12
Sept. 30. Warehouse, Louisville, Ky. ..... Sept. 12
Sept. 30. Sewers, etc., Rochester, Ind. ..... Sept. 12
Advertised, Engineering News, Sept. 12.
Sept. 30. Electric installation, New York, N. Y. ... Sept. 19
Sept. 30. Addition to hospital, Middletown, N. Y. .. Sept. 19
Sept. 30. Sewers, Westboro, Mass. ..... Sept. 26
Sept. 30. Paving, etc., Albany, N. Y. ..... Sept. 26
Sept. 30. Fire house, Atlantic City, N. J. ..... Sept. 26
Advertised, Engineering News, Sept. 26.
Sept. 30. Water system, Standing Rock, N. Dak. ... Sept. 26
Sept. 30. Bridge, Victoria, B. C. ..... Sept. 26
Oct. 1. Sewers, Hammond, Ind. ..... Sept. 26
Oct. 1. Sewer, New London, Conn. ..... Sept. 26
Oct. 1. Light vessel, Detroit, Mich. ..... Sept. 26
Oct. 1. Boilers and steel work, Washington, D. C. . Sept. 26
Oct. 1. Engine, feed pump, etc., Thomaston, Ga. . Sept. 26
Oct. 1. Bridge, Dover, Del. ..... Sept. 19
Oct. 1. Sewers, Kankakee, Ill. ..... Sept. 19
Oct. 1. Paving, Gallipolis, O. ..... Sept. 19
Oct. 1. Lighting, Brazil, Ind. ..... Sept. 19
Oct. 1. Sewers, Elizabeth, N. J. ..... Sept. 19
Oct. 1. Sewers, Columbia, Mo. ..... Sept. 19
Oct. 1. Stand-pipe, etc., New York, N. Y. ..... Sept. 19
Oct. 1. Mooring chains, Alexandria, Egypt. ..... Sept. 12
Oct. 1. Paving, Marquette, Mich. ..... Sept. 12
Oct. 1. Pumping machinery, Leicester, Eng. ..... Sept. 12
Oct. 1. Steel bridge, Moreton, Minn. ..... Sept. 12
Oct. 1. Sewers, Hartford, Conn. ..... Sept. 5
Oct. 1. Sewerage system, Bedford, Ind. ..... Sept. 12
Advertised, Engineering News, Sept. 12.
Oct. 1. Water supply, etc., Burlington, Ia. ..... June 27
Advertised, Eng. News, June 27 and July 11.
Oct. 1. Bridge, Copenhagen, Denmark. ..... Aug. 8
Oct. 1. Rip-rap, Galveston, Tex. ..... Aug. 8
Advertised, Eng. News, Aug. 8 to Sept. 26.
Oct. 2. Wire netting, Adelaide, South Australia. .. Sept. 12
Oct. 2. Hospital, Huntington, W. Va. ..... Sept. 19
Oct. 2. Paving, etc., Cleveland, O. ..... Sept. 19
Oct. 2. Garbage crematories (2), St. Louis, Mo. ... Sept. 26
Oct. 2. Sewer, Thomaston, Me. ..... Sept. 26
Oct. 2. Paving, Weehawken, N. J. ..... Sept. 26
Oct. 2. Wrought iron pipe, Cleveland, O. ..... Sept. 26
Oct. 3. Paving, etc., New York, N. Y. ..... Sept. 26
Oct. 3. Water-works, Cambridge, Wis. ..... Sept. 26
Advertised, Engineering News, Sept. 26.
Oct. 3. Post office, Creston, Ia. ..... Sept. 12
Oct. 4. Furnaces, etc., Omaha, Neb. ..... Sept. 19
Oct. 4. Water meter, Troy, N. Y. ..... Sept. 26
Oct. 4. Dredging, pier, etc., New York, N. Y. ..... Sept. 26
Oct. 5. Sewers, Lakewood, O. ..... Sept. 26
Oct. 5. School house, Webster City, Ia. ..... Sept. 26
Oct. 5. Court house, McRae, Ga. ..... Sept. 26
Oct. 5. Electrical machinery, etc., Conneaut, O. .. Sept. 26
Oct. 5. Boilers (2), Washington, D. C. ..... Sept. 26
Advertised, Engineering News, Sept. 26.
Oct. 5. Paving, St. Louis, Mo. ..... Sept. 26
Oct. 5. Steel bridge, Lawrenceburg, Tenn. ..... Sept. 19
Oct. 5. Sewers, Washington, D. C. ..... Sept. 12
Advertised, Engineering News, Sept. 12.
Oct. 5. Water gates, etc., Washington, D. C. ..... Aug. 8
Advertised, Engineering News, Aug. 8.
Oct. 7. Steel bridge, Roswell, N. Mex. ..... Sept. 12
Oct. 7. School building, Chilocco, Okla. Ter. ..... Sept. 19
Oct. 7. School houses, San Bernardino, Cal. ..... Sept. 19
Oct. 7. Sewers, Plainfield, N. J. ..... Sept. 19
Advertised, Engineering News, Sept. 19.
Oct. 7. Storm sewer, Barberton, O. ..... Sept. 26
Oct. 7. Sewers, Wausau, Wis. ..... Sept. 26
Oct. 7. Boiler, etc., Little Rock, Ark. ..... Sept. 26
Oct. 7. Sewers, Anaconda, Mont. ..... Sept. 26
Oct. 7. Paving, Barberton, O. ..... Sept. 26
Oct. 7. Bridges, Yazoo City, Miss. ..... Sept. 26
Oct. 7. Iron bridge, Knox, Ind. ..... Sept. 26
Oct. 7. Steel cells in jail, Ellisville, Miss. ..... Sept. 26
Oct. 7. Flagging, Hasbrouck Heights, N. J. ..... Sept. 26
Advertised, Eng. News, Sept. 26 and Oct. 3.
Oct. 7. Macadamizing, Knox, Ind. ..... Sept. 26
Oct. 8. Sewers, Canon City, Colo. ..... Sept. 26
Advertised, Eng. News, Sept. 26 to Oct. 10.
Oct. 8. Steel bridge, Jasper, Mo. ..... Sept. 26
Oct. 8. Jetties, Salines, Cal. ..... Sept. 26
Oct. 8. Bridge, Rensselaer, Ind. ..... Sept. 26
Oct. 8. Sewers, Boston, Mass. ..... Sept. 19
Advertised, Eng. News, Sept. 19 and 26.
Oct. 8. Sewers, Cleveland, O. ..... Sept. 19
Oct. 8. Water-works extension, Menomonie, Wis. . Sept. 19
Oct. 8. Electric machinery, London, England. ..... Sept. 12
Oct. 8. Sewers, Conneaut, O. ..... Sept. 12
Oct. 8. Tunnel sewers, London, Eng. ..... Aug. 22
Oct. 9. Bridge, Vicksburg, Miss. ..... Sept. 12
Oct. 9. Road improvements, Denver, Colo. ..... Sept. 19
Oct. 10. Post office and court house, Elmira, N. Y. . Sept. 12
Oct. 10. Court house, Columbia, S. C. ..... Sept. 12
Oct. 10. Jail, Marysville, Kan. ..... Sept. 26
Oct. 10. School, Xenia, O. ..... Sept. 26
Oct. 12. Coaling plant, New York, N. Y. ..... Aug. 29
Oct. 12. Revenue cutters, Washington, D. C. ..... Sept. 19
Oct. 14. Paving, Toledo, O. ..... Sept. 19
Oct. 14. Paving, Michigan City, Ind. ..... Sept. 19
Oct. 14. Fireproof vault, Miami, Tex. ..... Sept. 26
Oct. 15. Pump house, etc., Delaware City, Del. ... Sept. 26
Advertised, Eng. News, Sept. 26 to Oct. 10.
Oct. 15. Jail, Nashville, Ga. ..... Sept. 19
Oct. 15. Court House, Bainbridge, Ga. ..... Sept. 19
Oct. 16. Electric elevators, Washington, D. C. ..... Sept. 19
Advertised, Eng. News, Sept. 19 to Oct. 10.
Oct. 16. Sewers, Logansport, Ind. ..... Sept. 19
Oct. 16. Paving, etc., Cleveland, O. ..... Sept. 26
Oct. 17. Sewers, Xenia, O. ..... Sept. 26
Oct. 21. Sewers, Santiago, Cuba. ..... Sept. 19
Advertised, Eng. News, Sept. 19 to Oct. 10.
Oct. 23. Sewerage and paving, Havana, Cuba. ..... Sept. 19
Advertised, Eng. News, Sept. 19 to Oct. 17.
Oct. 26. Bridge, Indo-China. ..... Sept. 12
Oct. 26. Coal storage plant, Washington, D. C. ..... Sept. 26
Oct. 27. Water-works, Fresno, Cal. ..... Sept. 19
Nov. 1. Sewers, etc., Greenwood, Miss. ..... Sept. 19
Advertised, Eng. News, Sept. 19 to Oct. 24.
Nov. 1. Water-works, etc., Greenwood, Miss. ..... Sept. 19
Advertised, Eng. News, Sept. 19 to Oct 24.
Nov. 1. Bridge, Milwaukee, Wis. ..... Sept. 12
Nov. 11. Water-works, etc., Yazoo City, Miss. ..... Sept. 19

Dec. 3. Coaling plant, Manila, P. I. ..... June 20
Dec. 4. Self-propelling wagons, etc., London, Eng. June 20
Jan. 10. Harbor work, Rosario, Argentine Republic. Apr. 18
Feb. 28. Bridge, Sydney, N. S. W. ..... June 20
Advertised, Eng. News, June 20 to July 11.
Sept. 1, 1902. Bridge plans, St Petersburg, Russia. . Sept. 19
Advertised, Eng. News, Sept. 19 to Oct. 3.
No date. Survey, North Salem, N. Y. ..... Aug. 22
Advertised, Engineering News, Aug. 22.
No date. Boilers, Nashville, Tenn. ..... Aug. 29
" . Ditch, Litchfield, Mass. ..... Sept. 19
Advertised, Eng. News, Sept. 19 and 26.
No date. Pump and turbine, Lynchburg, Va. ..... Sept. 26
" . Cofferdam, Niagara Falls, Ont. ..... Sept. 26

RAILWAYS.

(For foreign railways see under "Foreign Contracts and Export News.")

ARKANSAS & CHOCTAW.—The general contractors for the construction of this road, 250 miles in length, Johnston Bros. & Fought, of Oklahoma City, Okla., have sublet most of the work. Tracks have been laid to Arkinda, 24 miles. About 75 miles will be completed by Feb. 1, 1902. This road will run from Ashdown, Ark., to Wichita Falls, Tex., paralleling the Red River. All rights of way are obtained. F. W. Valliant, Ch. Engr., St. Louis, Mo.

BAINBRIDGE NORTHERN.—This company is building a four-mile branch westward from a point on its main line near West Bainbridge, Ga., to reach a large body of timber, the property of the Flint River Lumber Co. The line is located and grading has probably been started by this date. Chas. H. Caldwell, Pres.; Arthur Pew, Ch. Engr., Bainbridge, Ga.

BROOKSVILLE & HUDSON.—This company is building from Brooksville, Fla., in a southwesterly direction to Hudson, on the Gulf Coast, 26 miles, with a branch in the direction of Bayport. Arthur Pew, Bainbridge, Ga., writes us that he has just completed the location of 30 miles, and that four miles of track has been laid. The work so far has been done by a day force. J. J. McDonough, Savannah, Ga., is the head of the enterprise.

CANADIAN PACIFIC.—Surveys are being made from Carman, Man., southwest toward Killarney, crossing the valley between Rock and Pelican Lakes, about 100 miles. Surveys are also being made from Abbotsford, which is east of Vancouver, B. C., on the Mission branch, for 50 miles northeast to the Hope District, and it is stated that the line will be completed this year as far as Chilliwack, 26 miles.——The company will build extensions at Bay Shore for the cattle sheds at Sand Point, St. John, N. B., and a new wharf near Rodney Slip. The plans may be seen at the Mayor's office, St. John, N. B. General Superintendent Osborne, who is in charge of the division, will superintend the work.

CHICAGO & NORTHWESTERN.—Chas. J. Poetsch, City Engineer of Milwaukee, Wis., will prepare drawings and estimates of the cost of depressing the company's tracks in the 18th Ward, that city, and also for the construction of viaducts across the tracks at all the crossings to be done away with by the depression.

DEFIANCE, KENTON, OTTAWA & COLUMBUS.—The directors of this road have decided to let the contract for the construction of the road. So far 90 miles of the road, from Defiance to La Rue, O., has been surveyed and the rights of way for the remainder have been secured, excepting at a few points. The work is mainly in the hands of John W. Minn and F. S. Hay, of Toledo, O. Eastern capital is largely invested.

DES MOINES, IOWA CITY & EASTERN.—Grading will be started on the western end of this road as soon as contracts can be let. The surveys were completed some time ago, and for the past two or three months the company has been engaged in securing rights of way. George W. Ball, Iowa City, Ia.; John M. Read, Des Moines, and Mayor H. F. Rayburn, Montezuma, are interested.

ILLINOIS CENTRAL.—It is stated that this company will expend in the neighborhood of $100,000 on improvements to its property at Freeport, Ill. It is proposed to enlarge the round house, machine shop buildings and install new machinery.

KENTUCKY.—W. L. Gordon, of Madisonville, Ky., is said to be in New York in the interest of the proposed line of railway to be built from that city to Dawson Springs, a distance of 17 miles. The company has been incorporated to build the road.

MAGANETAWAN RIVER.—James Sharpe, Pres., Burks Falls, Ont., informs us that plans and all arrangements have been made for the immediate construction of the company's two miles of road from the main line of the Grand Trunk Ry. to the head of navigation of the Maganetawan River. The company will do its own construction. J. H. Hobson, Ch. Engr., Montreal, Que.

MASON CITY & FT. DODGE.—John Marston, Jr., Ch. Engr., Fort Dodge, Ia., writes us that the surveys for this road are nearly completed and the rights of way are now being secured. Construction capital secured. The heavy work of construction will be let this fall and the balance in the spring of 1902. The line will be 250 miles in length. I. W. Colt, Pres., Fort Dodge.

MINNESOTA.—Reports from Benridge, Minn., state that T. B. Walker is about to construct a standard-gage railway for logging purposes from a point half way between Solvay and Shevlin to a point 14 miles south in the neighborhood of Lake Itasca, where he has about 200,000,000 ft. of pine to get out, and which he will haul to Benridge and Akeley for sawing.

MOBILE & OHIO.—W. H. Wells, Ch. Engr. of Construction, Southern Ry., states that work will be started at an early date on the Searcy extension of this road. The contracts for building will be let in the course of a few days.

MUSCATINE & NORTH & SOUTH.—Preparations have begun for the extension of this line from Elrick to Burlington, Ia. The right of way has been purchased through portions of Des Moines county, and it is thought that the line will be in operation by Jan. 1, 1903. Chas. Howard, Gen. Mgr., Muscatine, Ia.

NATCHEZ, COLUMBIA & MOBILE.—R. B. Butterfield, Ch. Engr., Norfield, Mass., informs us that seven miles of this road has been located and the survey is now in progress on the balance of the branch from the main line to the town of Monticello, which will be about 14 miles long. John S. Butterfield, Pres., Norfield.

OREGON RY. & NAVIGATION CO.—A contract has been let to Kilpatrick Bros. & Collins, Beatrice, Neb., for the construction of a railway from Albina to St. Johns, a distance of five miles.

PRESCOTT & EASTERN.—Grading has been started on the eight-mile extension of this road from Huron Station to Poland Mine. The work will cost about $200,000. One of the features of the construction will be a tunnel 700 ft. in length.

SAN PEDRO, LOS ANGELES & SALT LAKE.—H. Hawgood, Ch. Engr., Los Angeles, Cal., writes us that a contract was let on Sept. 18 to F. M. Monroe, Los Angeles, for grading the first 30 miles from Los Angeles to Pomona.

SEABOARD AIR LINE.—It is reported that the company will expend $1,000,000 on improvements to its road bed. Vice-President Barr is reported to have stated that the road bed will be ballasted with crushed stone. J. M. Ennis, of Braidentown, Fla., who has the contract for the building of the first five miles of the new extension from Plant City to Palmetto, Fla., will begin work in a few days.

TACOMA SOUTHERN RY. & NAVIGATION CO.—Incorporated in Washington, with a capital stock of $1,000,000, for the purpose of constructing a railway from Tacoma to a point on the Columbia River near The Dalles. Wm. Bailey, New York; Ira H. Town, R. R. Cole and Wm. C. Halliday, Tacoma, are interested.

TENNESSEE.—A contract is reported let to Capt. W. C. Crozer, of Knoxville, for the construction of a branch railway three miles in length to run from the L. & O. along Crow Creek to the property of the Poplar Creek Coal Co. The work will cost about $30,000, and will be paid for by the Poplar Creek Co. and the Crow Creek Mining & Mfg. Co.

WADLEY & MT. VERNON.—Reports from Georgia state that the right of way is now being secured for this line from Douglas to Valdosta. The citizens are anxious to secure the road and have guaranteed a free right of way and liberal subscriptions. It is expected that the road will be built within three months.

WEST VIRGINIA.—It is stated that the Crockett Coal & Coke Co., recently organized at Davy, will construct a railway for the development of 40,000 acres of coal lands.

WISCONSIN & MICHIGAN.—The contract for fencing 35 miles of line between Peshtigo and Porterfield has been awarded to Joseph Turcotte, of Fisher, Mich.

STREET AND ELECTRIC RAILWAYS.

(For foreign street and electric railways see under "Foreign Contracts and Export News.")

GARDINER, ME.—Articles of association have been filed by the Gardiner St. Ry., to operate a road covering three miles of streets in this city. Freeman Patten and J. K. Foy, Gardiner, and A. Davenport, Farmingdale, are directors.

CONCORD, N. H.—The Exeter & Newmarket St. Ry. Co. has filed articles of incorporation; capital stock, $75,000. Wallace D. Lovell is interested.

AKEN, N. Y.—A contract has been let to D. A. Crage & Co., of Buffalo, for the construction of the extension of the Amsterdam St. Ry., from Johnstown to Aken, about eight miles. The extension will be double track and will require very heavy work. The contractors have headquarters at this place, and will sublet earth excavation and masonry work.

EAST AURORA, N. Y.—The village has granted franchises to the Buffalo, Hamburg & Aurora and the Buffalo & Ebenezer railway companies to build through this place.

WHITE PLAINS, N. Y.—The Golden's Bridge Electric Ry. Co. of Westchester County and the Danbury & Golden's Bridge St. Ry. Co. of Danbury, Conn., have consolidated, and will be known in the future as the Danbury & Harlem Traction Co. The capital stock will be $300,000.

McKEESPORT, PA.—The council has granted a franchise to the East McKeesport St. Ry. for the use of certain streets in this city.

SELLERSVILLE, PA.—Local papers state that the Lehigh Valley Traction Co. will build a large power station near this place. General Manager Harris states that the location is not decided on.

WILKESBARRE, PA.—The Shickshinny & Huntington Valley R. R. has been organized and a charter obtained for the purpose of building an electric road from Shickshinny to Harveyville, a distance of seven miles. R. P. Robinson, Pres.; R. M. Tubbs, Secy. E. W. Garrison, Treas.

BALTIMORE, MD.—The executive committee of the United Railways has organized the Dundalk, Sparrow's Point & North Point Ry. Co., chartered for the purpose of building the extension to Sparrow's Point. The extension will be built as a separate corporation, although it will later become a part of the United Railways system. The new company is capitalized at $250,000. Geo. R. Webb, Pres.; Wm. A. House, Vice-Pres. and Gen. Mgr.; B. C. Keck, Treas.

HAGERSTOWN, MD.—W. C. Hepperle, of this city, writes us that the contract for building the Hagerstown & Boonsboro Ry. Co.'s line has been let to Lynch, Jennings & Lane, of Hagerstown. The entire right of way is secured and about 6 miles of road is graded. The line will be 12 miles long, and will run through Frinkstown, Beaver Creek and Mapleville, besides the towns named. Christian W. Lynch, Pres., Harrisburg, Pa.

GREENSBORO, N. C.—Bids are wanted by the Greensboro Electric Co., 112 North Elm St., for 16,000 oak railway ties, also on 30 and 35-ft. poles for street lines.

COLUMBIA, S. C.—The Greenville-Piedmont Traction Co. has prepared a charter to operate a car line between the above places, the capital stock to be $100,000, work to be begun at an early date. M. F. Ansel is interested.

GREENVILLE, S. C.—Local papers state that preliminary surveys have been made for the new electric line from this city to Piedmont. A company is organizing for the purpose of building the road and will soon apply for a charter. Materials have been purchased and work will begin as soon as possible, and will be completed by early spring.

MOBILE, ALA.—The council has granted a franchise to the Mobile Light & R. R. Co. J. Howard Wilson, Pres.

GEORGETOWN, KY.—The Georgetown & Lexington Traction Co. has purchased the Georgetown Electric St. Ry., and will commence work at once on the rebuilding of it from Georgetown to Lexington.

CANTON, O.—A franchise has been granted to Wm. H. Hoover, Chas. A. Kolp and John C. Welty for the use of the public highways from this city to New Philadelphia for the proposed electric railway between those points.

FORT WAYNE, IND.—The county commissioners have granted a franchise to D. J. Cable and associates of Lima, for the right to build a trolley line. The franchise is for 50 years and stipulates electricity as the motive power. The company is capitalized at $50,000, and has been incorporated as the Fort Wayne & Lima Traction Co., and will operate a street railway system in this city. They propose to construct an interurban line from Lima, O., to Fort Wayne. The line will touch New Haven and Monroeville. J. B. Kerr, W. F. Norman and W. L. Parmenter, Lima, are also interested.

HUNTINGTON, IND.—R. D. Smith, Engr., Fort Wayne & Southwestern Traction Co., is reported to be securing the right of way for the proposed extension of the company's road.

NEWCASTLE, IND.—Albert D. Ogborn, Newcastle, writes us that preliminary surveys have been completed for an electric railway from this city through Spiceland, Dunreith, Ogden, Raysville and Knightstown, a distance of about 15.3 miles, and about one-half of the right of way is secured. The construction capital has been secured, but no date has been fixed for awarding contracts. The company which will build this road has not yet been incorporated. Mr. Ogborn will be manager.

BENTON HARBOR, MICH.—The West Michigan Traction Co. has bought land for a power canal 200 ft. wide and is now purchasing land for a terminal.

DETROIT, MICH.—The Everett-Moore syndicate has finally decided to use electricity on its road between Detroit and Toledo, O. The syndicate proposes to build a spur from Monroe to Dundee, a distance of 13 miles. It is stated that the company which is to put this line through will be organized within a short time and construction will be started soon thereafter.

IRON MOUNTAIN, MICH.—Application for a right of way through this city has been made to the council by F. J. Trudell, of Menominee, representing capitalists who propose to build a trolley line connecting Iron Mountain and Norway, a distance of about 20 miles.

ELKHORN, WIS.—The council has granted a 50-year franchise to Geo. J. Hurd, Jamesville, for an electric road through this city. Mr. Hurd is representing the Janesville, Elkhorn & Lake Geneva line.

JANESVILLE, WIS.—The council has granted a franchise to the Janesville St. Ry.

MILWAUKEE, WIS.—The Milwaukee Electric Ry. Co. will build a new power house, and has purchased the Saratoga Mill at Waukesha for that purpose. John I. Beggs, Gen. Mgr.

DAVENPORT, IA.—The Iowa & Illinois Ry. has been incorporated, with a capital stock of $125,000, to build an electric railway between this city and Clinton, passing through the small towns along the river. F. J. Spencer, Wauseon, O., Pres.; J. A. Foster, Attica, Ind., Supt. of Construction. The principal office is at Clinton, Ia.

STEVENSVILLE, MONT.—Geo. T. Baggs, of Stevensville, informs us that contracts will be let this winter for building the two miles of road for the Stevensville Electric Ry. & Light Co., which will run from this town to the Stevensville depot. Work will be started in the spring. Electricity will be used as motive power.

FARMINGTON, MO.—W. H. Hipolite, Ch. Engr. St. Francois County Electric Ry., informs us that the final locations have been completed, and that bids will be called for the construction of the company's line about Oct. 1. The stockholders of the company voted on Oct. 1 to increase the capital stock from $50,000 to $150,000, and authorized an issuance of $100,000 in bonds. The road will be 13 miles long, running through De Lassas, Farmington and Flat River, Mo. Peter Giessing, Pres.

DENVER, COLO.—We are informed that the Denver & North Western Ry. will run from Berkeley (in Denver) to Arvada, Louisville and Boulder, Colo., a distance of 30 miles. The line will be 30 miles long. The contract for grading between Berkeley to Arvada has been let to J. A. Osner, Denver, and work has been started. S. M. Perry, Pres.; John A. Beeler, Ch. Engr., Denver.

TACOMA, WASH.—The Tacoma Ry. & Power Co. is preparing to extend the Tacoma street railway system in the southern part of the city. It has applied to the county commissioners for franchises to the Puyallup Indian reservation, and for a new line across the tide-flats, running parallel with the Puyallup waterway. F. L. Dame, Gen. Supt.

LOS ANGELES, CAL.—The directors of the San Bernardino Valley Traction Co. have decided to issue bonds to the amount of $250,000 for the purpose of building the proposed eletric road between that city, Colton and Redlands.

LOS ANGELES, CAL.—The officials of the Temple St. Ry. have ordered the motive power to be changed to electricity from cable.

REDLANDS, CAL.—C. W. A. Cartlidge, Vice-Pres. Redlands St. Ry., informs us that the contract for grading the remaining three miles of the company's road will be let on Sept. 25. The track laying and overhead work will be done by the company. The company now has 4.5 miles in operation. The bonded indebtedness has been increased from $50,000 to $150,000 to provide for this work and future improvements. Henry Fisher, Pres.

VANCOUVER, B. C.—R. M. Horne-Payne, Pres. British Columbia Electric Ry., writes us that bids will probably be called for Nov. 1 and be received Dec. 15 for the new hydraulic plant, to be built as an addition to the existing steam power plant. The plant will be of 15,000 HP. capacity.

ELECTRIC LIGHT AND POWER.

MECHANIC FALLS, ME.—The Mechanic Falls Light & Power Co. are to increase their power by additional water wheels. Surveys to that effect are now being made.

FARMINGTON, N. H.—It is reported that the Farmington Shoe Co. is to put an electric light service in its buildings.

GLOVER, VT.—It is reported that W. F. Clark has purchased a water-power site here and proposes to put in an electric light plant.

DERBY, CONN.—The Connecticut Lighting & Power Co. has been sounding the Housatonic River, near this place, to determine the location of the new dam which will be built.

WILLIMANTIC, CONN.—The directors of the Willimantic Gas & Electric Light Co. have completed arrangements for the enlargement of their gas plant. The improvements will cost nearly $40,000.

ALBANY, N. Y.—It is reported that the Standard Signal Co. contemplates the erection of building to be used as a storehouse, power house and office, in 1902.

BUFFALO, N. Y.—It is reported that the Western New York Power Co., of this place, will take out papers of incorporation soon and will commence to erect poles, lines, etc., between Niagara Falls and Rochester. C. B. Hill and John Otto, Jr., Buffalo, are interested in the project.

DOLGEVILLE, N. Y.—The plant of the Dolgeville Electric Light Co. has been purchased by Richard L. Storrs, representing the Herkimer County Electric Light & Power Co., for $20,000. The Herkimer Co. will operate the plant.

BEVERLY, N. J.—We are informed that the Beverly Water Co. has been taken out of the hands of the receiver and all of the stock has been purchased by H. C. Jones, J. J. Burleigh, Camden, and H. T. Duke, Philadelphia. The plant is in excellent condition and is to be extended so as to supply Delanco, Riverside and Mt. Holly. The general management of the operation is in the hands of H. T. Duke, 625 Drexel Bldg., Philadelphia.

LEWISTOWN, PA.—It is reported that a company is being formed to erect a power plant at a point 14 miles from this place. The plant will be large enough to supply electricity to several towns in Centre county.

FORT WASHINGTON, MD.—The following proposals for furnishing and installing an electric light plant at Fort Washington, Md., were opened at U. S. Engineer Office, Washington, D. C., Sept. 19: W. M. Sheehan, New York, N. Y., $2,895, time 75 days; National Electrical Supply Co., Washington, D. C., $3,312.20, time 60 days; Edward Heaton, New York, N. Y., $3,403, time 70 days; J. F. Buchanan & Co., Philadelphia, Pa., $3,475, time 45 days; McCay Engineering Co., Baltimore, Md., $3,598, time 45 days, alternative bid, $3,915; New Jersey Foundry & Machine Co., New York, N. Y., $3,695, time 12 weeks; Samuel B. Libbey, New York, N. Y., $4,980, time 60 days.

HARRISONBURG, VA.—J. S. Bradley, Recorder, writes us that at the election held Sept. 17 the projected bond issue for a municipal electric light plant was defeated.

MOORESVILLE, N. C.—Zeb. V. Turlington, Clk., writes us that the project for a bond issue for an electric plant was defeated at a recent election.

ROCK HILL, S. C.—It is reported that the Rock Hill Electric Co. is arranging to remodel its plant, put in new dynamos and make other changes so as to receive power from the Catawba Power Co. J. H. D. Maxwell, Elec. Engr., Anderson, S. C.

JACKSON, GA.—An application has been filed with the city council asking for a franchise to put in an electric car line here, and also electric lights. The applicants own valuable water power on the Ocmulgee River, and if the franchise is granted they will generate their power at the river.

SUMMERVILLE, GA.—A franchise has been granted to the Augusta Gas Light Co. to lay gas mains in the streets of this village.

THOMASTON, GA.—Bids are asked until Oct. 1 for furnishing and erecting engine, feed pump, etc., for the electric light plant. Collier & Brown, Engrs., Atlanta, Ga.

HAZLEHURST, MISS.—We are informed that bids for the proposed city electric plant will be received about Nov. 1. The plant is to be operated by steam and is to cost about $35,000. W. C. Porter, Des. Engr., Laurel, Miss.; E. M. Cook, Mayor.

HUNTINGTON, TENN.—This place has voted to issue $2,000 worth of bonds for the purchase of a dynamo and improving the electric light plant.

MARYVILLE, TENN.—It is reported that the Knoxville Power Co. is to erect a dam on the Little Tennessee River, the cost of erection of which will be about $1,000,000.

TULLAHOMA, TENN.—A contract has been made with the Winchester Taxing District for furnishing power to operate the electric light and water-works systems of Tullahoma.

BUCYRUS, O.—The Logan Natural Gas Co. has been granted a franchise in this city.

COLUMBUS, O.—The Indianola Heating & Lighting Co., of this city, has been incorporated to construct and operate a plant for production of light, heat and power. Among the incorporators are William H. Sharp, Wells Teachnor, C. E. Richards.

COLUMBUS, O.—Bids are asked until Sept. 27 for electric lighting this city. Clarence M. Addison, Clk. Bd. Pub. Wks.

CONNEAUT, O.—Bids will be received by the board of electric light trustees until Oct. 5 for improvements to the electrical department. F. B. Colson, Chn.

FOSTORIA, O.—The franchise of the City Heat & Light Co. has been declared forfeited by the council.

FREMONT, O.—Franchises have been granted to A. H. Jackson, W. E. Proctor, T. H. Jungk, W. W. Esch, all of this place, to construct and maintain a heating plant and also an electric light and power plant.

LAPORTE, IND.—The Laporte County Electric Co. has filed articles of incorporation. The company expects to construct or acquire electric light, power and heating stations in Laporte and Michigan City. The company is capitalized for $160,000, and the directors are: W. A. Boland, New York; W. A. Foote, Jackson, Mich.; D. F. Lewis, New York; C. H. Holmes, Green Bay, Wis.; Lemuel Darrow, Laporte.

DETROIT, MICH.—The City & Suburban Lighting, Heat & Power Co. has been formed with a capital stock of $1,000,000. The object of the company is to furnish electric light, heat and power. The officers of the company are: J. D. Hawks, Pres.; Alex. McPherson, Vice-Pres.; S. F. Angus, Secy. and Treas., all of Detroit.

GRAND RAPIDS, MICH.—The old power station on Lyon St. has been purchased by Felix Raniville, and it is said he will install a plant for furnishing heat and power.

LYONS, MICH.—This village has voted to issue $2,500 electric light extension bonds.

SAGINAW, MICH.—H. E. Terry, Cy. Engr., writes us that the council has directed the board of public works to prepare plans and specifications for a municipal electric light plant.

KIRKWOOD, ILL.—It is stated that this town has appointed Aldermen Green and Kyler to investigate the electric light plants in the neighboring towns with a view of establishing a local plant.

LENA, ILL.—The board has granted a 25-year franchise to S. S. Garvin, of Austin, Ill., for an electric light, heat and power plant. Work must begin within six months and the plant be finished within a year. The town reserves the right to purchase the plant after 15 years, at an appraised value. Mr. Garvin expects to commence work at once, and will use a 100-HP. boiler.

DEKALB, ILL.—The council has awarded a contract to the DeKalb Electric Co. for furnishing street lights for the next 10 years.

PEORIA, ILL.—Local papers state that the council of East Peoria has decided to have electric lights. The lights and lamps committee is now negotiating with the Peoria Gas & Electric Co. for the furnishing of the lights.

SPRINGFIELD, ILL.—Reports state that Messrs. Zahner and Carter, of Parker City, Ind., promoters of the plan to locate a gas plant in this city, has selected a site for the works. About 150 men will be employed.

WINCHESTER, ILL.—The electric light plant in this town was burned on Sept. 16; loss, about $5,000.

BANGOR, WIS.—The Hussa Brewing Co. has submitted a proposition to the village, whereby it agrees to furnish electric light for the village for $500 per year, provided that private citizens take at least 150 lights. If the proposition is not accepted the company will put in a plant for their brewery only.

DELAVAN, WIS.—An 8-year franchise has been granted to the Electric Light & Fuel Co. of this city.

COLUMBUS, WIS.—An ordinance has been passed putting the management and control of the water-works and electric light plant in the hands of a committee consisting of one alderman and three citizens. The matter of a new pump and motor for the power house has been referred to the water-works and electric light committee.

FOND DU LAC, WIS.—It is reported that 75 arc lamps will be installed here soon.

MADISON, WIS.—The state board of control has let a contract to a Chicago firm for 6,000 electric lamps, to be used for the ensuing year at the nine state institutions under the supervision of the board.

OSHKOSH, WIS.—It is reported that the Oshkosh Gas Light Co. is to erect a $5,000 brick building for purifying the gas. E. P. Sawyer is president of the company.

ESTHERVILLE, IA.—Action has been taken to obtain an injunction to enjoin this city from completing the new electric light plant which has already been commenced.

McINTOSH, MINN.—A 10-year franchise has been granted Anton Jensen for putting in an electric light plant to be completed by Jan. 1, 1902.

ROCHESTER, MINN.—Resolutions have been adopted in the council here for the raising of money for electric light improvements.

WELLINGTON, KAN.—The city council is considering a proposition to vote $15,000 in bonds to build a municipal electric light plant.

FULLERTON, NEB.—I. I. Bennett, Hastings, Neb., has filed an application for a permit to appropriate water from Cedar River at this place for an electric light and power plant, to cost $5,900. The work of construction is to commence before Jan. 1, and the plant is to be completed by next July.

BUTTE, MONT.—The Montana Power Transmission Co. has commenced an action against 250 or more people who live along the Big Hole River and tributary creeks to have them perpetually enjoined from interfering with the company's water rights.

KANSAS CITY, MO.—The upper house has passed lighting ordinances locating lights in all except the Seventh Ward. About 200 electric lights, gas and gasoline lights are provided for by the ordinances.

ST. LOUIS, MO.—The Citizens' Electric Light & Power Co. has filed applications for permission to lay conduits on several streets of this city. The company was organized several years ago, with a capital stock of $3,000,000. The officers are: Julius S. Walsh, Pres.; August Gehner, Vice-Pres.; Breckinridge Jones, Treas.; Philip Stock, Secy.; Charles H. Ledlie, Gen. Mgr. and Ch. Engr. The company has purchased the old elevator property at the foot of O'Fallon St. and active operations toward building a power station will soon commence.

GEORGETOWN, TEX.—An election is to be held here Oct. 5 for bonding the town for $8,000 for the purpose of building an electric light plant.

CHICKASHA, IND. TER.—E. W. Decker writes us that the Chickasha Electric Co. has been incorporated under the laws of the state of Texas, but its plant is at Chickasha, Ind. T. The company owns and operates the electric plant for both light and power purposes and also owns and operates a telephone exchange in the same town, with long-distance lines. Plants have been in operation for several months and are thoroughly equipped and up-to-date. They have dynamo capacity for about 50 arc lights, 2,200 c. p., and 2,400 incandescents. Total cost of plant was $35,000. The telephone system cost about $20,000 and is wholly new.

PORT ORCHARD, WASH.—The Sidney Milling Co. contemplates erecting an electric light plant for the mill and may furnish light for the town.

GRASS VALLEY, CAL.—J. A. Britton, Pres. Oakland Gas Lighting Co., and J. B. Grimwood, San Francisco, have been making a survey of the possibilities of a new gas plant for either Nevada City or Grass Valley.

HEALDSBURG, CAL.—Engineer Barnes has informed the trustees that the present lighting plant is too small and that it should be enlarged.

NORTH BLOOMFIELD, CAL.—A company represented by A. L. Gassaway proposes to erect a mill at the De Norn mine, above this place, sinking a large double compartment shaft. An electric light plant will also be installed.

REDLANDS, CAL.—We are informed that the Redlands Electric Light & Power Co.'s plant on Mill Creek Canyon is to be a hydraulic plant, to generate about 2,000 HP. F. C. Finkle, Hydr. Engr., Redlands. A. H. Ensign, Elec. Engr., Los Angeles.

RIVERSIDE, CAL.—Ex-Judge J. L. Campbell, San Bernardino, has presented plans to the city trustees for supplying Riverside with electric light and power.

SAN RAPHAEL, CAL.—An ordinance has been passed granting the California Central Gas & Electric Co. a franchise for the erection of poles, etc., for the transmission of electricity.

FORT GRANT, ARIZ.—The following bids for building a reservoir and laying water pipe were received Sept. 16: E. R. Hooker, Wilcox, Ariz., $47,000; Dennis J. Tirzway, Denver, Colo., $34,600; L. V. McCourt, Wilcox, Ariz., $48,750.

OGDEN, UTAH.—It is reported that the Utah Light & Power Co. and the farmers and other owners of water rights in Weber county are to erect a dam in Ogden Canyon. According to the present plans the dam will be between 60 and 70 ft. high and will be located three-quarters of a mile above the present reservoir of the Light & Power Co.

MOUNT FOREST, ONT.—A by-law has been passed for the purchase of the plant of the Mount Forest Electric Light Co. and the enlargement of the same. The plant was carried on by Messrs. Corley and Collins.

NIAGARA FALLS, ONT.—Cecil B. Smith, Res. Engr. of the Canadian Niagara Power Co., is asking tenders for the framing, placing and filling of coffer dams in the Niagara River and the laying of an underground conduit.

GRAND FORKS, B. C.—It is reported that J. Roderick Robertson, Ch. Engr. British Columbia Goldfields Syndicate, has said that Cascade plant will be developing 3,000 HP. before Jan. 1.

BRIDGES.

(For foreign bridge operations see under "Foreign Contracts and Export News.")

RUTLAND, VT.—The following bids were received by A. C. Grover, Cy. Engr., on Sept. 16 for building a bridge: Boston Bridge Works, Boston, Mass., $4,053; Berlin Construction Co., Berlin, Conn., $3,227; Springfield Construction Co., Springfield, Mass., $3,142; American Bridge Co., New York, $2,750 (accepted).

ALBANY, N. Y.—John N. Partridge, Supt. Pub. Wks., has awarded the contract for the construction of a bridge over the Glens Falls feeder, in Queensbury, to Reardon & Burnham, Glens Falls, at $4,765.

BUFFALO, N. Y.—The board of public works has let a contract for the span and trestle for a new bridge

ever Cazenovia River at Stevenson St. to D. E. Horton, at $4,150. The contract for excavating is let to Thomas Brown, at $1,090.

SENECA FALLS, N. Y.—An election will be held on Sept. 24 to vote on the proposition of issuing $11,000 in bonds for the construction of the Rumsey St. bridge.

WAVERLY, N. Y.—Local papers state that the contract for a new bridge over the Susquehanna River at Wysox has been awarded to the Owego Bridge Co., at $36,300.

ELIZABETH, N. J.—The committee appointed by the board of freeholders to investigate the condition of the Crane St. bridge have found it to be too far past the stage of usefulness to warrant repair.

JERSEY CITY, N. J.—Bids are asked until Oct. 7 for the reconstruction of the Newark Ave. bridge over the Hackensack River. The cost of the work will be about $30,000, of which the North Jersey St. Ry. will share a portion of the expense. John P. Egan, Clk. Bd. Chosen Freeholders.

NEWARK, N. J.—A committee has been appointed by the board of freeholders to report on the advisability of repairing the Prince St. bridge or building a new structure. The repairs would cost about $4,000 and a new bridge $10,000.——The freeholders have ordered a new bridge near Ringoes.

OCEAN GROVE, N. J.—A contract has been awarded to Shinn & Hyde, Lakewood, for building the Mantoloking draw, to cost about $3,759.

SMITH'S LANDING, N. J.—J. J. Albertson, County Engr., writes us that all bids received on Sept. 11 for the construction of the Absecon bridge were rejected. A re-advertisement will be made.

DOYLESTOWN, PA.—The following bids were received by the county commissioners on Sept. 16 for building the new bridge at Kober's Ford, in New Britain: Penn Bridge Co., $3,975; Berlin Construction Co., $4,100; Nelson & Buchanan, $3,800 (accepted); National Bridge Co., $3,920.

PITTSBURG, PA.—The grand jury has approved the erection of a bridge across the Youghiogheny River, connecting Sewickley Township, Westmoreland county, and Elizabeth Township, Allegheny county. Each county will bear one-half of the cost of the new structure.

CUMBERLAND, MD.—The county commissioners have ordered the construction of five new steel bridges to be erected near Mount Savage and Cresaptown. The bridges will range from 16 to 30 ft. in length. W. J. Miller, Clk. Bd., will soon call for bids.

CARROLLTON, GA.—Bids are asked until Oct. 1 for building a bridge 64 ft. long across Wolfe Creek. S. J. Brown, Ordinary.

YAZOO CITY, MISS.—Bids are asked until Oct. 7 for building three bridges. S. S. Griffin, Clk. Bd. Supervisors.

MT. PLEASANT, TENN.—Granbery Jackson, Engr., 211 Union St., Nashville, informs us that the contract for the steel bridge at this place has been let to the Nashville Bridge & Construction Co., of Nashville.

HAMILTON, O.—The following bids were received by the county commissioners Sept. 13 for steel and iron bridges over White Water River near Shandon and Dorr's Run, near Dorrtown: Dorr's Run Bridge—W. S. Brelsford & Bro., $2,000, superstructure; Cincinnati Bridge Co., $1,050; American Bridge Co., $1,611; New Castle Bridge Co., $926 and $1,250; Frank J. Davis, superstructure $1,040, substructure $500; Brackett Bridge Co., $1,250 and $1,120; Hamilton Construction & Tool Co., $1,300. Dry Fork Bridge—Bellefontaine Bridge Co., $2,550 for 150-ft. span and $1,000 for 70-ft. span; Cincinnati Bridge Co., $3,500 and $3,600; American Bridge Co., $4,880; Clem Delaney, $2,550; New Castle Bridge Co., $3,668.50 and $4,517; Frank J. Davis, $3,444; King Bridge Co., $3,790, $927, $3,635 and $854; Brakett Bridge Co., $3,800 and $3,700. W. N. Andrews submitted a series of bids on both structures at the following prices; $8,707, $7,130, $6,280, $5,145, $6,330, $5,327, $4,333, $3,416, $2,377, $2,167, $1,947, $1,505, $4,890, $4,200, $3,100, $2,200, $1,612, $1,416, $1,019 and $840.

RAVENNA, O.—Bids are asked until Sept. 30 for building a high Pratt truss steel superstructure over the Cuyahoga River, to consist of one span of about 120 ft., with 14-ft. roadway. E. J. Smith, County Audr.

JASPER, IND.—Bids are wanted by the county commissioners until Oct. 8 for constructing a steel bridge 30 ft. in length, according to reports.

KNOX, IND.—Bids are reported wanted until Oct. 7 for constructing an iron bridge across the Robbins Ditch, to be 70 ft. long and 14 ft. wide. Christian Borchardt, Chn. County Comrs.

MUNCIE, IND.—The county commissioners will make an appropriation for the building of a cement arch over Muncie Creek in Highland Ave. The arch will cost about $3,000, of which the Union Traction Co. will pay its share.

RENSSELAER, IND.—Bids are wanted by the county commissioners until Oct. 8 for constructing two bridges in Jasper county.

BATTLE CREEK, MICH.—The following bids have been received for constructing the new bridge over the Battle Creek River in North Jefferson Ave.: Massillon Bridge Co., $13,500; Owosso Bridge Co., $12,625; American Bridge Co., $9,975 and $10,225.

TREMONT, ILL.—Bids are asked until Sept. 27 for erecting a 45-ft. steel span, with stone abutments, in this township. S. S. Smith, Chn. Roads & Bridges Com.

DUBUQUE, IA.—The special committee appointed to take charge of the Eagle Point high bridge approach has instructed City Engineer Blake to prepare plans and specifications for a steel viaduct to run east of the Milwaukee tracks and parallel with them.

WESTMORELAND, KAN.—Bids are asked until Oct. 7 for erecting a 40-ft. span steel bridge over Cedar Creek in Blue Township. H. P. Scritchfield, County Clk.

BEAVER CITY, NEB.—Bids are asked until Oct. 1 for constructing a steel bridge having one 40-ft. span across Turkey Creek, according to reports. T. F. Newton, County Clk.

SAVANNAH, MO.—Bids are asked until Oct. 4 for constructing two bridges and until Oct. 7 for building four bridges. S. E. Schnitzius, Bridge Comr.

FORREST CITY, ARK.—Bids are asked until Oct. 7 for building a bridge across Allen Bayou, about eight miles north of Madison. Geo. P. Taylor, County Judge.

HOUSTON, TEX.—It is stated that Gonzales county has voted to issue $30,000 in bonds to build bridges.

TORONTO, ONT.—A deputation consisting of E. A. Little, M. P. for Cardwell; County Councillors Quinlan and Harvey, of Simcoe county, and Reeve Young, Morrison, have petitioned Hon. F. R. Latchford for assistance in the construction of a bridge 200 ft. long over the Severn River between the county of Simcoe and Morrison Township.

WELLESLEY, ONT.—The council has authorized the construction of a new iron bridge over the River Nith, to be paid for out of an issue of $3,000 in bonds.

VICTORIA, B. C.—Bids are asked until Sept. 30 for the erection of a bridge across the Kettle River at Ingram's, West Kootenay District. W. S. Gore, Deputy Comr. of Lands & Works.

BUILDINGS.

NEW YORK, N. Y.—It is reported that a 2-story building, 160 × 300 ft., to cost $150,000, is to be built on the site of Building No. 21 in the Brooklyn Navy Yard.——Samuel Huckle, Jr., Arch., Gerard Bldg., Philadelphia, is preparing plans for a 3-story building, 200 × 60 ft., to be erected at Madison Ave. and 46th St. for the American Express Co. The building is to cost about $100,000.——The French Benevolent Society has awarded the contract for the new hospital of the society, to be built on 34th St., to Welch, Smith & Prorot.

NEW YORK, N. Y.—Plans have been filed for a 6 and 8-story brick storage house, 145 × 100 ft., at 501-541 West 63d St., to cost $100,000; Central Brewing Co., premises, owner. Wilhelm Ginesser, Arch., 11 Broadway; for a 9-story brick hotel, 38 × 90 ft., at 124-126 West 47th St., to cost $200,000. Henry Anderson, Arch. and owner, 483 Broadway; for a 6-sty brick tenement, 50 × 86 ft., in 129th St., east of Eighth Ave., to cost $70,000; Leon A. Liebeskind, 36 West 115th St., owner. George F. Pelham, Arch., 503 Fifth Ave.

PHOENIX, N. Y.—The state commission on prisons has adopted resolutions directing the supervisors of Oswego county jail to build a suitable annex for the confinement of women, children and juvenile offenders.

ATLANTIC CITY, N. J.—The contract to build the apartment house for John L. Young on the ocean front, at the corner of Tennessee Ave., has been let to Doyle & Doak, contractors, 1509 Sansom St., Philadelphia. The building is to be built of brick, six stories in height, and is to cost about $250,000.——The work of tearing down St. Nicholas Church has begun, preparatory to the erection of the new $100,000 stone church.

ATLANTIC CITY, N. J.—Bids are wanted by the property committee until Sept. 30 for erecting a 2-story brick fire house, as stated in our advertising columns. S. Hudson Vaughn, Arch., Real Estate and Law Bldg., Atlantic City.

JERSEY CITY, N. J.—It is reported that Rev. B. Henry Ter Woert, Rector of St. Mary's Church, has started to raise a building fund for the erection of a new church.

EASTON, PA.—E. D. Moyer, Secy. Y. M. C. A., writes us that the proposed Y. M. C. A. building to be erected in Easton is not to be built by the city association, but by Lafayette College. Rev. E. D. Warfield is President of the college.

PITTSBURG, PA.—The board of viewers has made a report in regard to the acquisition of land for the extensive addition to the Carnegie Library and Institute. Plans have been drawn by F. E. Alden, Arch., 314 Fourth Ave., Pittsburg. The total cost of the completed institute will be about $3,600,000.

PHILADELPHIA, PA.—Plans have been filed by Jardine, Kent & Jardine, Archs., 1262 Broadway, New York, for an 8-story brick warehouse, 40 × 84 ft., to be built for the Waverly Realty Co., at 10-12 Christopher St., at a cost of $50,000.——M. H. & C. S. Dickinson, Archs., have plans for the erection of a factory building at Butler and Sepvina Sts. for a local manufacturing concern. It is reported that plans will be sent out for bids soon.——It is reported that local builders are receiving plans for bids on the erection of a boiler plant to be erected at League Island in accordance with plans and specifications of F. T. Chambers, Engr., Philadelphia Navy Yard.——H. B. Shoemaker & Co., Builders, have posted plans and are asking bids for the erection of the marquese at the Reading Terminal for the Philadelphia & Reading R. R., in accordance with plans by Wilson Bros. & Co., Engrs. and Archs., 1036 Drexel Bldg., Philadelphia.——The contract for erecting the warehouse building at 35th St. and Gray's Ferry Road for Harris Brothers & Co. (Inc.) has been let to Stacey, Reeves & Co., 1611 Filbert St., Philadelphia.——It is reported that the Pennsylvania R. R. Co. intends to abandon the old Powelton Ave. Station and to erect a new one south of the site, with additional tracks.

SHARON, PA.—The offer of Frank H. Buhl, former President of the Sharon Steel Co., to erect a $200,000 public building here has been accepted.

WASHINGTON, D. C.—Bids are asked until Oct. 26 for building a cold storage plant. M. T. Endicott, Navy Department, Washington.

BRISTOL, VA.—President Fink, of the Norfolk & Western R. R. Co., has approved the plans and specifications for a union passenger depot at this place. It is expected that the building will cost about $100,000.

NORFOLK, VA.—Carpenter, Breeze & Ferguson, Archs., have prepared plans for a storage warehouse on Water St. for the Henry Walke Co. It is expected that the contract for the work will be let to Franklin D. Gill.

RICHMOND, VA.—It is reported that the congregation of Beth Ahaba Synagogue has already on hand funds sufficient to commence work on a new synagogue, to cost $60,000.

CHARLESTON, S. C.—The commissioners from Pennsylvania for selecting a site for the state buildings at the coming exposition, to be erected at a cost of $35,000, visited this city a short time ago. Work on the buildings will be commenced soon.——Capt. C. C. Wolcott and Commander A. G. Menocal, Civil Engrs., U. S. Navy, have selected the sites for various buildings in the navy yard here. The plans are practically completed, and bids will soon be called for. The work in part consists of the constructing of two concrete dry docks, two heavy granite piers, torpedo station and various other buildings.

ATLANTA, GA.—Cramp & Co., Builders, Philadelphia, Pa., have the plans for the 16-story fireproof brick office building to be erected in this city, at a cost of about $600,000. Bids are asked until Oct. 4. Plans drawn by Bruce & Moyan, Archs., Atlanta, Ga.

BRUNSWICK, GA.—Henry T. Dunn, of this place, has been appointed disbursing officer for the new government building fund. About $100,000 will be paid out in the next 16 months.

McRAE, GA.—Bids are asked until Oct. 5 for enlarging the county jail. Wm. McLean, Clk.

REIDSVILLE, GA.—Bids are asked until Nov. 11 for building county court house. B. F. Alexander.

TAMPA, FLA.—Congressman S. M. Sparkman has received two drawings of the proposed new government building, work upon which is to commence Jan. 1. The building is to be three stories in height.

JACKSONVILLE, FLA.—A permit has been issued for the erection of the new Presbyterian Church building at the corner of Monroe and Ocean Sts. The contract has been let to Christian Black & Co., Camden, S. C. Wilson & Edwards, Archs., Columbia, S. C.——The plans of R. S. Somerville, Arch., Park Bldg., Jacksonville, for a new police headquarters have been accepted by the board of bond trustees.——Bids are asked until Sept. 28 for work in connection with the construction of an infirmary. Address Board Trustees, Central Hospital for the Insane.

BIRMINGHAM, ALA.—The plans for a 10-story steel office building have been completed and work upon the foundation will commence soon after Oct. 1. W. H. Woodward, Weld, Me., is the owner. Stone Brothers and Weston, Archs.

MONTGOMERY, ALA.—The plans of York & Sawyer, Archs., 156 Fifth Ave., New York, for the new $50,000 library building to be erected here have been accepted.

CROWLEY, LA.—Plans and specifications for the erection of a court house will be received until Nov. 11. G. Howard Brooks, Secy. Police Jury, Acadia Parish.

LAKE CHARLES, LA.—The contract for making repairs and additions to the court house has been let to R. W. Abright, Shreveport, La.

NEW ORLEANS, LA.—An ordinance has been passed by the city council directing the city engineer to prepare specifications and the comptroller to advertise for bids for a police jail in the Seventh District.——The [illegible] firm, whose building was recently destroyed by fire, are planning the erection of a 5-story structure on the site of the old building.

SHREVEPORT, LA.—It has been voted to raise $80,000 by taxation to build three new schools. It was also voted to raise $70,000 to build a new jail.

CLEVELAND, O.—The contract for the erection of a 5-story warehouse on Eagle St. for J. M. Henderson has been let to John C. Schenck and work has already commenced.

XENIA, O.—Bids will be received until Oct. 10 by the school board for building a high school. W. Chamberlain & Co., Archs., Birmingham, Ala.

NEW CASTLE, IND.—It is reported that the Methodists are to build a $50,000 church at the corner of Indiana Ave. and 14th St.

OTTERBEIN, IND.—Bids are asked until Sept. 28 for the construction of a Catholic church. Catholic Church Committee may be addressed.

HOUGHTON, MICH.—Plans for a $40,000 banking house for the Citizens' Bank of Houghton have been prepared by Charlton, Gilbert & Demar, Archs., Marquette, Mich.

LAKE LINDEN, MICH.—C. K. Shand, Arch., Calumet, Mich., has made the plans for a city hall and engine house here, to cost $80,000.

MUNISING, MICH.—The contract for the construction of the court house here has been let to the Northern Construction Co., Milwaukee, Wis., at $29,448. Other bids received: Lipsett & Sinclair, Marquette, $29,970; Morton & Stewart, Munising, $29,200. Charlton, Gilbert & Demar, Archs., Marquette, Mich.

BLOOMINGTON, ILL.—Bids are asked until Oct. 19 for purchase of $136,000 court house rebuilding bonds. C. R. Ewing, Chn. Finance Com.

CHICAGO, ILL.—Contracts have been let for a 5-story book bindery plant at 110-116 Pacific Ave., to cost $125,000. Holabird & Roche, Archs., 1618 Monadnock Bldg.——Plans have been made by George Beaumont, 115 Dearborn Bldg., for a 3-story warehouse, to be built on Union Place, for John McConnell, at a cost of $45,000.——The building committee of the Union League Club have asked D. H. Burnham & Co., 1142 Bookery Bldg.; Jenney & Mundie, N. Y. Life Bldg., and Shepley, Rutan & Coolidge, 122 Ames Bldg., Boston, Mass., to submit plans for a new club house on the site of the present edifice. The drawings must be in by Nov. 1.——The following building permits have been issued: Brock & Rankin, 5-story brick warehouse, 112-114 Pacific Ave., to cost $120,000; Rudolph Schnessler, 3-story brick store, 1448-1454 Ogden Ave., to cost $24,000; Deering Harvester Co., 4-story brick warehouse, Clybourne and Fullerton Aves., to cost $100,000.

BARABOO, WIS.—The contract for a $35,000 passenger depot in this city has been let to the C. W. Gindele Co., Chicago.

WILWAUKEE, WIS.—The plans and specifications for the new Tenth Ward school have been prepared and contractors can get copies at the board of public works.

SIOUX CITY, IA.—It is reported that all the stations on the Sioux City & Pacific R. R. between here and Omaha are to be overhauled and many of them rebuilt.

WEBSTER CITY, IA.—Bids will be received until Oct. 5 for building a school house. C. A. Howd, Secy. School Board.

DULUTH, MINN.—It is reported that McCarthy Bros. & Co., Duluth and Minneapolis, are to build a shipping and receiving elevator of 4,000,000 bushels capacity and an annex to hold 1,600,000 bushels. They will be of steel, and will cost from $6,000,000 to $7,000,000.

PIPESTONE, MINN.—Bids will be received by the county commissioners until Oct. 10 for building a jail. George A. Berlinghof, Arch., Beatrice, Neb.——It has been voted to issue bonds to the amount of $20,000 for the completion of the county court house, work upon which was stopped about a month ago owing to lack of funds.

GRAND ISLAND, NEB.—H. H. Menck, County Clk., writes us that bids for the court house will be opened in about two months. Building is to be of stone, three stories high, 70 × 145 ft., and is to cost about $90,000. Thomas R. Kimball, Arch., Omaha.

BISBEE, N. DAK.—Bids are asked until Sept. 28 for erecting a 2-story school building. Wm. Keaton, Clk. School Board.

DICKINSON, N. DAK.—It is reported that this place is to have a new Northern Pacific depot.

BUTTE, MONT.—It is said that the building of a $50,000 castle in this city by the Knights of Pythias is an assured fact.

FARMINGTON, MO.—The plans and specifications for the three buildings to be erected here in connection with the Farmington Asylum have been accepted. The buildings will cost about $40,000 equipped. H. H. Hohenschild, Arch., Rolla, Mo.

ST. LOUIS, MO.—We are informed that the drawings for the 7-story, 60 × 100 ft. building for the Hadley-Dean Glass Co., will be ready by about Oct. 3. Isaac S. Taylor, Arch., 318 N. Eighth St., St. Louis.

EL PASO, TEX.—It is stated that there is a project for the erection of an exhibition hall in this place, to cost about $100,000.

MIAMI, TEX.—Bids are asked until Oct. 14 for the construction of a fireproof vault outside of the court house. S. G. Carter, County Judge.

WENATCHEE, WASH.—Bids are asked until Sept. 28 for building a school house in District 31. M. Horan, Clk.

REDLANDS, CAL.—The plans of F. D. Hudson, Arch., 316 Stimson Blk., Los Angeles, for a county jail, to cost not more than $155,000, have been accepted.

VANCOUVER, B. C.—The plans of G. W. Grodt, Arch., have been accepted for the Carnegie library building.

VICTORIA, B. C.—W. S. Gore, Comr. Lands & Works Dept., is asking tenders for building a new government house at Victoria.

WATER-WORKS.

BERWICK, ME.—The Berwick Water Co., of this place, has been incorporated. Casper E. Marshall, Pres.; W. G. Spence, Treas.

NORTH BENNINGTON, VT.—The question of a water system for this place is being agitated.

LEXINGTON, MASS.—This place has voted to issue $10,000 in bonds for extending the water-works and securing an additional supply.

ALEXANDRIA BAY, N. Y.—A survey has been made with a view of placing water-works here. A special election is to be held soon to vote on the matter.

AUBURN, N. Y.—The contract for putting in the foundation for the new pump and engine and making the necessary changes at the lower pumping station has been let to D. W. Barnes & Sons at $14,344.

CARTHAGE, N. Y.—At a recent election it was voted to make a survey as a step toward obtaining a new water supply for this place. James Brownell, Engr., assisted by Henry Hodgkins, C. E., Syracuse, is making the survey.

GILBOA, N. Y.—The Gilboa Water Co., organized to supply this village with water, has been incorporated.

OSWEGO, N. Y.—This city has contracted with the Oswego Water Co. for a continuance of its service for a term of 15 years at $20,000 a year. The right to purchase the plant is included in the contract, at the price previously set by the company, and a special election is to be held Sept. 24 to decide the question.

ROCHESTER, N. Y.—The contract for the extension of the water mains in many streets of the city has been let to Whitmore, Rauber & Vicinus at $2,045.

TROY, N. Y.—Bids are asked until Oct. 4 for furnishing Venturi water meter. John Phelan, Comr. Pub. Wks.

MT. HOLLEY, N. J.—Henry C. Risdon, Secy., under date of Sept. 13, writes us that the matter of installing a filter plant had not been considered up to that date by the board of directors of the water company.

CARBONDALE, PA.—The city engineer has estimated the cost of the proposed municipal water plant for this city to be $173,831.66.

HARRISBURG, PA.—It is reported that plans are being made looking to the improvement of the city water.

JOHNSTOWN, PA.—A charter has been issued to the Seward Water Co., of this place.

LEWISTON, PA.—It is reported that the Lewiston Water Co. is to erect an additional water basin in this place.

MIDDLETOWN, PA.—It is reported that a new water plant is talked of for this place. Messrs. Freck and Leffer, Millersburg, Pa., are interested in the project.

NINEVEH, PA.—A charter has been issued to the Quarry Water Co., of this place.

DELAWARE CITY, DEL.—Bids are asked until Oct. 15 for constructing a pump house at Fort Dupont, Del., and installing plumbing, electric wiring and pumping machinery, as stated in our advertising columns. Address Constructing Q. M., Delaware City.

BALTIMORE, MD.—Plans for extensive improvements in the water service laid before the water board by Engineer Quick include the erection of new pumping plant and standpipe, to cost about $55,000; extension of water mains, about $31,000; establishment of meters, about $9,000.

MOUNTAIN LAKE PARK, MD.—A company has been organized, with a capital of $100,000, to furnish this place and Lock Lynn Heights with light and water.

WASHINGTON, D. C.—Bids are asked until Sept. 30 for construction of a water system at Standing Rock Boarding School, North Dakota. W. A. Jones, Comr. Indian Affairs, Washington.

LYNCHBURG, VA.—Bids are asked for a pump and turbine wheel for the city water-works. W. C. N. Randolph, Jr., Supt.

CHARLESTON, S. C.—Plans are being prepared by Capt. David Price for a water-works and sewer system for the new military park now being built on Sullivan's Island.

ATLANTA, GA.—A communication has been sent to the council asking them to provide means for the construction of a new reservoir.

MONTEZUMA, GA.—It is stated that work on a water system for this place will commence soon.

SARDIS, MISS.—Granbery Jackson, C. E., 211 Union St., Nashville, Tenn., has been employed to design and construct a system of water-works for this place, for which $15,000 bonds were recently issued. Correspondence from parties prepared to drill wells is wanted.

NASHVILLE, TENN.—A charter has been issued to the West Nashville Oil, Gas & Water Co. Incorporators, C. Flisher, W. F. Brooks, W. W. Bush, J. M. Zarecor, W. B. Felts.

PRINCETON, KY.—J. R. King, Mayor, writes us that an election will be held Nov. 5 to vote on the question of issuing $4,000 in bonds for a water plant.

LAKEWOOD, O.—It is reported that a Columbus firm has made a proposition to locate a pumping station near the mouth of Rocky River and water-works sufficiently large to supply Lakewood, Rocky River and Rockport hamlets with water.

SPRINGFIELD, O.—J. D. Cook, Consult. Engr., Toledo, has made a report relative to plans by which a supplemental water supply may be insured for this place.

BATESVILLE, IND.—We are informed that two called meetings have been held to discuss the water-works question, but no decision has yet been reached.

EVANSVILLE, IND.—Steps are to be taken soon to put a stop to the pollution of the Pigeon Creek water. Dr. J. N. Jerome, Pres. Bd. of Health, is reported as being in favor of building locks in the creek for this purpose.

LEWISVILLE, IND.—A special committee has been appointed to consider the question of a water-works system for this place.

ALLEGAN, MICH.—This place has voted to issue $15,000 in bonds for water-works improvements.

GRAND RAPIDS, MICH.—The board of public works has engaged Charles A. Hague, Consult. Engr., 39 Cortlandt St., New York, to investigate and report upon the question of an improved water supply for this city.

MACKINAC ISLAND, MICH.—We are informed that a water supply system is now being put in. Water is to be pumped from a lake intake to a circular covered reservoir.

MIDLAND, MICH.—It is reported that new boilers and a new building will be provided for the water-works here.

WOODMERE, MICH.—A special election will be held Sept. 30 relative to the proposal to bond the town for $93,537 for a water-works system.

ARCOLA, ILL.—The council has voted $3,000 for the improvements of the water-works at this place.

GENESCO, ILL.—The $20,000 in bonds, issued for the purpose of erecting and maintaining the new water-works system, have been sold.

KANKAKEE, ILL.—It is reported that the contract for the city water-works filter has been let to a Massachusetts company, at between $30,000 and $40,000.

MT. OLIVE, ILL.—The question of water-works, to cost about $40,000, is being considered.

PANA, ILL.—It is reported that this place intends to erect water-works.

RUSHVILLE, ILL.—It has been voted to expend $4,000 to sink a 1,600-ft. well here.

BARABOO, WIS.—An ordinance has been introduced providing that the citizens vote Nov. 5 on the question of bonding the city for $60,000 to construct a new municipal water-works plant.

CAMBRIDGE, WIS.—Bids are asked until Oct. 3 for material and the construction of a complete system of works, as described in our advertising columns. W. G. Kirchoffer, Engr., Baraboo.

DES MOINES, IA.—It is reported that there is a prospect of a company being formed for building an independent water plant at the army post, to cost about $10,000.

POCAHONTAS, IA.—H. A. Heald writes us that bonds have been voted and the water-works will be put in next spring.

WATERLOO, IA.—The Waterloo Water Co. has filed a trust deed for $250,000. The sum of $80,000 will be held as a reserve fund and the balance will be used for improvements to the plant.

GLENWOOD, MINN.—The $15,000 of village lock-up and water-works bonds have been sold.

GRAND MEADOW, MINN.—Bids are asked until Oct. 5 by the council for $5,500 water-works bonds.

MINNEAPOLIS, MINN.—Bids will be received until Sept. 27 for furnishing material and sluice gates for construction of Northwest pumping station. L. A. Lydiard, Cy. Clk.

BLAIR, NEB.—The $25,000 refunding water-works and court-house bond issue has been sold.

SPALDING, NEB.—This place is to vote soon on the addition of $1,100 to money already in the treasury for a system of water-works.

WINSIDE, NEB.—This place is soon to vote on the proposition of constructing works.

KANSAS CITY, MO.—This city has already retired $151,000 of water-works bonds out of the $3,100,000.—The board of public works have approved the plans of Engineer Goodwin for repairs to the Turkey Creek pumping station, to cost $7,000.

ST. LOUIS, MO.—It is thought that the committee which has been investigating the water supply of this city will make a report before the end of the year.—It is reported that an Eastern syndicate has put forward a project to supply St. Louis with water from the Meramec Springs, the source of the Meramec River.

DAYTON, TEX.—The Dayton Rice Growers' Association has decided to sink 19 wells for irrigation purposes.

DENISON, TEX.—The M., K. & T. has purchased a block of ground and will build a 3,250,000-gallon reservoir, to cost about $50,000. Chief Engineer Petheram and Resident Engineer Acheson have charge of the work.

FARMERSVILLE, TEX.—The question of water-works for this place is being considered.

FLORESVILLE, TEX.—The mayor and aldermen have been constituted a committee to confer with the citizens in regard to establishing a system of water-works.

COLORADO SPRINGS, COLO.—The city council has voted to purchase the Seven Lakes reservoir site for $60,000. To make this site available as a part of the water system, it is said the city will have to spend about $400,000 or $500,000 in the construction of dams, cuts and tunnels.

GRAND JUNCTION, COLO.—It is reported that bids are to be asked for soon for the construction of a reservoir for the city water-works, to cost about $10,000.

LONGMONT, COLO.—Bids are asked until Sept. 28 for the purchase of $110,000 of water bonds. George H. Stonex, Cy. Clk.

TRINIDAD, COLO.—The city engineer writes us that at present there is no intention of extending the water system, but that a plan is in contemplation for substituting a 36-in. wood-stave pipe in place of the old wooden flumes from the dam to the reservoirs, some two miles or more.

HENNESSEY, OKLA. TER.—A charter has been issued to the Hennessey Water & Power Co., for a period of 20 years. Incorporators, Fred. Ehler, J. A. Ratliff, G. A. Clark, G. R. Gillette, W. C. Stevens. Capital stock, $15,000.

BALLARD, WASH.—It is reported that the city clerk has been instructed to advertise for bids for furnishing this city with 1,000,000 gallons of water daily.

DALLAS, ORE.—H. V. Gates, of Hillsboro, Ore., has made a proposition to the city to construct and equip a water-works plant. The whole cost of the undertaking will be about $25,000.

MONMOUTH, ORE.—This city has in contemplation the putting in of a complete set of water-works.

PORTLAND, ORE.—It is reported that efforts are being made to substitute a 20-in. main in place of the 6-in. main on East First St.

BAGDAD, CAL.—It is reported that there is some prospect of a pumping plant being erected here to furnish the Sante Fe R. R. with water.

MODESTO, CAL.—It is expected that R. H. Goodwin, Ch. Engr. Modesto Irrigation District, will have compiled all the necessary data for the canal by Oct. 7. Bids may be received at that date for its construction.

WINTERS, CAL.—The following persons bid for the contract for the proposed water-works Sept. 16: William Belser & Co., San Francisco; Christian Groelick & Co., San Francisco; Maltinyh & Co., San Francisco; Marten Pipe & Foundry Co., San Francisco; George W. Sharp, Vacaville, Cal. H. V. Walsh, Town Clk.

TEMPE, ARIZ.—An election will be held Oct. 1 to vote on a $30,000 issue of bonds for constructing and equipping water-works.

LEHI CITY, UTAH.—The Utah Sugar Co. has decided to complete the irrigation canal on the east side of the Bear River Valley. The canal, when completed, will carry enough water to irrigate about 20,000 acres.

RICHFIELD, UTAH.—The Otter Creek Reservoir Co. is to enlarge its canal to carry more water into the reservoir. The changes will cost about $5,000.

SALT LAKE CITY, UTAH.—It is reported that the Utah Light & Power Co. is to join with the farmers and irrigation companies in the construction of a dam and reservoir in Ogden Canyon. A 70-ft. dam is in contemplation and it is planned to have a 2,000,000,000-gallon reservoir.

LEWISTON, IDAHO—G. W. Thompson has made an application for a water-works franchise.

SAND POINT, IDAHO.—L. D. Farmin writes us that a water-works system will not be put in this season.

SYDNEY, N. S.—This place has voted the sum of $250,000 for water, sewerage, street and school purposes.

POINT TUPPER, N. S.—J. M. Le Blanc, Moncton, N. B., has secured a contract from the I. C. R. for the construction of a 10,000,000-gallon reservoir here in addition to the laying of two miles of 6-in. pipe.

SEWERAGE.

THOMASTON, ME.—Bids are asked until Oct. 2 for constructing a sewer at the state prison; estimated cost, $2,500. Hillman Smith, Warden; P. H. Coombs, C.E., Bangor.

WESTBORO, MASS.—Bids are asked until Sept. 30 for connecting the Lyman School for Boys with the trunk sewer, requiring approximately 2,300 lin. ft. of 8-in. pipe, 1,600 lin. ft. of 6-in. pipe, 450 lin. ft. of 5-in. pipe, 17 manholes, and 300 cu. yds. of rock excavation. M. H. Walker, Chn. Trustees, Lyman and Industrial Schools. J. J. Van Valkenburgh, Engr., South Framingham.

NEW LONDON, CONN.—Bids are asked until Oct. 1 for constructing a sewer at Fort H. G. Wright, N.Y. Address Constructing Q. M., 27 Granite St.

BUFFALO, N. Y.—Bids are asked until Sept. 27 for constructing a 12-in. tile sewer in Marilla St. and Woodside Ave. R. G. Parsons, Secy. Bd. Pub. Wks.

FORT EDWARD, N. Y.—F. E. Crane, Amsterdam, has been engaged to make a map of the village showing a plan for a sewerage system. No work in that line is contemplated at present.

KINGS PARK, N. Y.—The following bids were received on Sept. 18 by E. F. Smith, Secy., 481 Franklin Ave., Brooklyn, for constructing a sewerage disposal plant at the Long Island State Hospital: The City Waste Disposal Co., $18,741, a deduction of $1,752 to be made if certain work is performed by hospital; Municipal Engineering Co., $22,485; International Sewerage Disposal Co., $24,570, a deduction of $2,200 to be made if certain work is performed by hospital; for installing plumbing in existing buildings, $200. Bids were referred to the state architect.

ST. JOHNSVILLE, N. Y.—The village trustees are considering the question of installing a sewerage system. F. B. Towman, Village Engr., has estimated the cost of a system at about $16,000.

YONKERS, N. Y.—The following bids were received on Sept. 23 for constructing an outlet sewer: B. F. Jones, 1 Broadway, New York, $18,411; Richard Parrott, 355 Broadway, Newburgh, $15,500; Chas. E. Pearsall & Son, Yonkers, $9,990; John Monks & Son, 130 Water St., New York, $13,308.

HADDONFIELD, N. J.—John Quinlan has been awarded a contract for constructing a sewerage system and a disposal plant at $30,689.

PLAINFIELD, N. J.—Plans and specifications for the extension of the sewerage system in this city, for which bids will be received until Oct. 7, may be seen at the office of Engineering News Publishing Co., 220 Broadway, New York. (See advertising columns.) Geo. B. Wean, Cy. Clk.; Andrew J. Gavett, Engr. in Charge.

RIVERTON, N.J.—Plans for the proposed sewerage system have been adopted by the borough council.

SEA ISLE CITY, N. J.—The council has revoked the franchise of the Sea Isle City Sewer Co.

SOUTH ORANGE, N. J.—Reports state that arrangements will soon be completed for rights of way for the proposed joint sewer for Union and South Orange townships, and that work will then be started. The proposed sewers will be about three miles in length.

ALLENTOWN, PA.—Bids are asked until Oct. 1 for the purchase of $100,000 in bonds for constructing storm-water sewers in some 18 streets, paving, garbage crematory, etc. Jas. L. Schaadt, Mayor.

GREENVILLE, PA.—A. J. Gillespie, Secy. and Solicitor Borough of Greenville, informs us that the contract for the outlet sewer in this place was awarded on Sept. 23 to Irwin Bros., Greenville, O., at $5,037, and for the street sewer to J. W. Mitchell, Newcastle, Pa., at $6,639. The itemized bids were received on Sept. 23, and will be published in our next issue, Oct. 3, under Contract Prices. This work was advertised in Engineering News.

LANCASTER, PA.—The street committee has decided to recommend to the council that the question of completing the sewerage system at a cost of $250,000 be submitted to a vote of the people.

McKEESPORT, PA.—The following bids have been received for constructing sewers: Hohman & Cardwell, $4,812; William W. Kelly, $4,620 (accepted).

RENOVO, PA.—John H. Welteroth, Williamsport, has been awarded a contract for constructing about 5,700 ft. of sewers at $4,000. There were three other bids received.

MILFORD, DEL.—Pierce & Carmens have been awarded the contract for constructing the sewerage system.

ANDERSON, S. C.—The street committee has been authorized to employ an engineer to make a survey and estimates on the cost of insfalling a sewerage system.

SHREVEPORT, LA.—The council has decided to construct the suburban sewers at a cost of $97,000.

BARBERTON, O.—Bids are asked until Oct. 7 for constructing a storm sewer with appurtenances in Dist. No. 1. W. A. Witner, Village Clk.

DAYTON, O.—Bids are asked until Sept. 27 for constructing 600 lin. ft. of 36-in. brick, and 1,450 lin. ft. of 12, 18, 24 and 30-in pipe sewer; 7 manholes and 16 catch basins. G. F. Kuhns, Pres., Bd. Cy. Affairs.

LAKEWOOD, O.—Bids are asked until Oct. 5 for constructing a portion of Section 3 of the sewerage system. John French, Hamlet Clk.

XENIA, O.—Bids are asked until Oct. 17 for constructing lateral sanitary sewers in Dist. No. 1. Henry J. Farrell, Secy. Bd. Sewer Comrs.

HAMMOND, IND.—Bids are asked until Oct. 1 for constructing 15-in. tile sewers in three streets and an 18-in. tile sewer in one street. Peter Jorgyons, Cy. Engr.

HARTFORD CITY, IND.—W. S. Saith, Wabash, who was awarded a contract for constructing a sewer at $10,386, $6,794 less than the city engineer's estimate, is expecting to be released from his contract. The city will probably readvertise for bids.

PAW PAW, MICH.—The George Rickman & Sons Co., Kalamazoo, has been awarded a contract for constructing a sewerage system at $6,447. There were 12 other bidders.

DIXON, ILL.—W. J. McAlpine has been awarded a contract for constructing a sewerage system at $6,020.

PEORIA, ILL.—The city engineer's office is working on the plans for the east bluff sewerage system, which will cost about $500,000. The plans will probably be completed by the first of the year and the contract let.

VANDALIA, ILL.—J. W. Dappert, Engr., Taylorville, writes us that contracts will be let in about six weeks for constructing six miles of open ditch, requiring 107,640 cu. yds. of excavation; estimated cost, $11,840; 13½ miles of 8 to 18-in. tile drains, estimated cost, $11,748, and 18 field bridges, estimated cost, $1,260. James W. Benson, C. W. Taylor, Hagerstown, and John Etcheson, Vandalia, are the commissioners.

MILWAUKEE, WIS.—F. H. Nakielski was awarded two contracts on Sept. 14 for constructing brick and pipe sewers at $21,544.

STANLEY, WIS.—A. M. Patitz, Milwaukee, has been appointed consulting engineer of the sewerage and waterworks systems to be installed at this place.

WAUSAU, WIS.—Bids are asked until Oct. 7 for constructing sewers in Warren and 7th Sts. John R. Patzer, Cy. Clk.

CHARLES CITY, IA.—Ford & Delahunt, Cedar Rapids, were awarded a contract on Sept. 16 for constructing A, B, and C sewers at $660, $1,980 and $5,400, respectively.

ANACONDA, MONT.—Bids are asked until Oct. 7 for constructing sewers in the alleys in blocks 63, 89, 100 and 116. G. S. E. Wisner, Cy. Clk.

KANSAS CITY, MO.—Bids are asked until Sept. 26 for constructing sewers in districts 57 and 187. Robert W. Waddell, Cy. Engr.

WESTPORT, MO.—The city engineer has completed plans for a sewerage system; estimated cost, $60,000.

CANON CITY, COLO.—Bids are asked until Oct. 8 for constructing a sewerage system for this city, approximately 13.4 miles in length, of from 6 to 24-in. pipe, with average depth of 9.3 ft., as stated in our advertising columns. J. H. Peabody, Mayor.

DENVER, COLO.—Bids are asked until Sept. 28 for constructing sewers and appurtenances in four sub-sewer districts. R. W. Speer, Pres. Bd. Pub. Wks.

GUTHRIE, OKL. TER.—The Shawnee Sewerage & Drainage Co. has been incorporated for 50 years with a capital of $50,000. C. R. De Butler, Walter Newman and F. M. Richards are incorporators.

SEATTLE, WASH.—An ordinance has been passed by the council for constructing a sewer in Highland Drive from 7th Ave. to 2d Ave. T. J. Humes, Mayor; Frank H. Paul, Cy. Clk.

PORTLAND, ORE.—William B. Chase, Cy. Engr., writes us that the sewerage system for Southeast Portland will not be constructed for two years.

BAKERSFIELD, CAL.—Resolutions have been passed to order the construction of sewers in alleys in nine blocks. A. T. Lightner, Cy. Clk.

LOS ANGELES, CAL.—Press reports state that an election will probably be called in October to vote on the question of issuing $726,000 in bonds to construct the proposed outfall sewer for which plans have been prepared by the city engineer.

STOCKTON, CAL.—Sewer bonds to the amount of $70,700 have been sold and storm water sewers will be constructed where needed.

VISALIA, CAL.—The Stockton Brick & Pottery Co. has been awarded a contract to furnish sewer pipe for the system to be installed here, at $35,000.

SYDNEY, N. S.—Mayor W. Crowe writes us that it is proposed to construct 5,000 ft. of 6 to 18-in. pipe sewers, with average cut of 7 ft., at an estimated cost of $5,000. W. A. McDonald, Designing Engr.

SAULT STE. MARIE, ONT.—Work is progressing on the heavy rock trenching for the city sewers. Mr. Knight and Mr. McCarthy are the contractors. Willis Chipman, Engr. The Lake Superior Power Co. is building a concrete sewer. Contractors, Battle, Brass & Co., Thorold, Ont.; Engr., A. S. Crane.

GARBAGE DISPOSAL—STREET CLEANING

LOWELL, MASS.—The committee appointed by Mayor A. R. Dimon, to investigate the garbage crematories at Waterbury and Bridgeport, Conn., has reported in favor of the Smith Crematory in use at Waterbury.

ALLENTOWN, PA.—Bids are asked until Oct. 1 for the purchase of $100,000 in bonds for a garbage crematory, sewers, paving, etc. Jas. L. Schaadt, Mayor.

EASTON, PA.—Mayor B. Rush Field writes us that the council has as yet taken no action towards installing a garbage crematory.

COLUMBIA, S. C.—The council has adopted a resolution to erect two garbage crematories.

SOUTH BEND, IND.—Reports state that the city treasurer has suggested means by which a garbage crematory can be constructed.

ST. LOUIS, MO.—C. W. Francis, Asst. Health Comr., writes us that bids are asked until Oct. 2 for two Merz system crematories of 350 tons per day capacity, contract to run from Nov. 17, 1901, to Nov. 14, 1904.

DALLAS, TEX.—The contract for constructing a garbage crematory has not yet been awarded. A committee will be appointed to investigate different plants in operation before this is done. There is $15,000 available for the work. Address Mayor Cabell.

TORONTO, ONT.—Street Commissioner Jones has reported to the works committee that the two garbage crematories are in need of repairs and improvements, which will cost about $14,000.

STREETS AND ROADS.

CAMBRIDGE, MASS.—The committee on roads and bridges has recommended the adoption of an order for widening Bridge St., at an estimated cost of $37,195.

MONSON, MASS.—The W. N. Flint Granite Co. has been awarded a contract for constructing a portion of state highway in Monson and Palmer, at $5,000.

SALISBURY, CONN.—Bids are asked until Sept. 26 by the town selectmen for grading three sections of road.

BUFFALO, N. Y.—The following were the lowest bids received for asphalt and brick paving in Ryan, East and Hamilton Sts.: Henry P. Burgard, with asphalt, in East St., $13,700; Hamilton St., $4,800; Ryan St., $10,300. L. H. Gripp, with brick, in East St., $17,500; Hamilton St., $6,400; Ryan St., $10,400.

ALBANY, N. Y.—Bids are asked until Sept. 30 for constructing a park on two blocks and for improving two streets by paving with brick, repairing the sidewalks with flagstones and bricks and laying pipe house drains, etc. Isidore Wachsman, Clk. Bd. of Contract and Supply.—It is proposed to extend Manning Boulevard, at an estimated cost of $40,000.

NEW YORK, N. Y.—Bids are asked until Oct. 3 for grading, paving, etc., and for repairing the Lorelei Fountain, paving, approximately, as follows: 10,105 sq. yds. of asphalt paving, 5,560 sq. yds. of granite block paving, 13,000 sq. ft. of flagstone sidewalks, 10,070 cu. yds. of excavation, relaying old stone pavement, curbing, etc., in certain streets. James P. Keating, Commr. of Highways, 15 Park Row.

SCHENECTADY, N. Y.—The following bids have been received for paving with brick in South Centre St. and Washington Ave.: Thomas R. Crane, Centre St., $20,270; Schenectady Contracting Co., Centre St., $20,190; Washington Ave., $9,650; N. J. Kellam, Centre St., $19,300 (awarded); Washington Ave., $9,220 (awarded).

HASBROUCK HEIGHTS, N. J.—Bids are asked until Oct. 7 for furnishing and laying 13,940 lin. ft. of flagging, 4 ft. wide, as stated in our advertising columns. G. H. Ramsden, Borough Clk.

WEEHAWKEN, N. J.—Bids are asked until Oct. 2 for asphalt paving in Hudson Ave. Geo. W. Bond, Jr., Township Engr.

ALLENTOWN, PA.—Bids are asked until Oct. 1 for the purchase of $100,000 in bonds for paving street intersections with brick or asphalt, constructing sewers, a garbage crematory, a steam road roller, etc. Jas. L. Schaadt, Mayor.

IRWIN, PA.—The $50,000 paving bonds having been sold, reports state that the council has decided to complete the paving of Main St. and Pennsylvania Ave. with ligonier block.—An $18,000 sewerage system is being constructed.

MEADVILLE, PA.—The following are the successful bidders for brick paving: James McAfee & Co., Allegheny City, 2,860 sq. yds. of Mack brick in Market St.; Frederick Robinson & Co., 2,530 sq. yds. of Jamestown repressed brick in Walnut St. A. C. Pardee, Cy. Clk.

McKEESPORT, PA.—James Stratton was awarded a contract on Sept. 16 for paving in Market St., at about $7,500.

READING, PA.—Bids are asked until Sept. 26 for paving with vitrified block in Perkiomen Ave. E. L. Lindimuth, Cy. Clk. Alex. Murdock, Cy. Engr.

MORGANTOWN, W. VA.—Reports state that a movement is on foot to pave the Fairmont and Morgantown Pike.

BIRMINGHAM, ALA.—The following bids were received on Sept. 18 for paving, etc., in 21st St.: Southern Paving & Construction Co., Chattanooga, Tenn., $29,533; Coaldale Paving Brick Co., $30,208; C. M. Burkhalter & Co., $32,160. The following will be recommended for acceptance: Dunn & Lallade Bros., grading, macadamizing and curbing, $7,142; constructing sewers, $3,923. Stamsen & Blome, Chicago, Ill., artificial stone sidewalks, $16,028. H. E. Manville & Co., artificial stone sidewalks, $32,197. C. M. Burkhalter & Co., grading, macadamizing and curbing, $8,907.

MOBILE, ALA.—Bids are asked until Oct. 10 for the purchase of $65,000 in paving bonds. T. S. Fry, Mayor. R. B. Owen, Jr., Cy. Clk.

BARBERTON, O.—Bids are asked until Oct. 7 for brick paving and stone curbing in two streets. W. A. Wittner, Village Clk.

BELLAIRE, O.—Bids are asked until Sept. 27 for improvements in two streets. F. A. Jackson, Cy. Clk.

CLEVELAND, O.—Bids are asked until Oct. 16 by the county commissioners for grading, draining, curbing, brick and asphalt paving in Detroit St. Wm. H. Evers, County Surveyor.—Thomas H. Garland & Sons were awarded a contract on Sept. 18 by the county commissioners for macadamizing the Noble Road, at about $44,000.

HAMMOND, IND.—Bids are asked until Oct. 1 for macadamizing with slag and broken stone and curbing on Fayette St. Peter J. Lyons, Cy. Engr.

INDIANAPOLIS, IND.—Bids are asked until Sept. 30 by the board of public works for constructing cement sidewalks in two streets and for grading, graveling, etc., in five streets.

KNOX, IND.—Bids are asked until Oct. 7 by the county commissioners for macadamizing about 13 miles of road in Center Township. John W. Kurtz, County Audr.

GROSSE POINT, MICH.—Bids are asked until Sept. 27 for macadamizing the Mack road between Detroit and this township. Charles A. Poupard, Highway Comr. Thos. Campau & Son, Engrs., Campau Bldg., Detroit.

PEORIA, ILL.—The following bids for paving were received on Sept. 17 for brick paving in Bradley Ave.: Dunbar & McAllister, $8,132; J. S. Allen, $7,641; Thompson & Case, $6,770 (awarded contract). For brick paving in University St.: Dunbar & McAllister, $4,238; J. S. Allen, $3,973; Thompson & Case, $3,531 (awarded contract).

MILWAUKEE, WIS.—Bids are asked until Sept. 28 by the board of public works for paving with brick on concrete foundation in a certain alley. John R. Wolf, Cy. Comptroller.

BOONE, IA.—Sidewalks have been ordered constructed in 11 streets and a contract will be let for paving in South Story St.

COUNCIL BLUFFS, IA.—Contractor Wickham has been awarded a contract for paving with block in six streets, at $61,529.

MARSHALLTOWN, IA.—Bids are asked until Sept. 28 for constructing cement or brick sidewalks. C. H. Shaw, Cy. Clk.

WASHINGTON, IA.—The council has passed a resolution for asphalt paving in Main St., and bids for the work will be opened Dec. 16.

ST. PAUL, MINN.—Bids are asked until Sept. 30 for boulevarding and improving in Portland Ave. C. H. Bronson, Clk. Bd. Pub. Wks.

GREAT FALLS, MONT.—Wilbur Bros. have been awarded a contract for boulevarding Fifth Ave. North, from Park Drive to 12th St., at $6,075.

KANSAS CITY, MO.—The Barber Asphalt Co. has been awarded contracts for asphalt paving in three streets, at $14,684; also for repairing asphalt pavement in six streets. The Parker-Washington Co. was awarded a contract for paving in three streets, at $7,949.—Bids are asked until Sept. 26 for asphalt paving in three streets. Robert W. Waddell, Cy. Engr.

ST. JOSEPH, MO.—Ordinances have been passed for paving in King Hill Ave. with brick, and City Engineer Floyd has been instructed to advertise for bids for the work.

ST. LOUIS, MO.—Bids are asked until Oct. 5 for constructing brick roads and granitoid sidewalks at St. Louis Clothing Depot. Lieut.-Col. D. D. Wheeler, Depot Q. M.

ROSEBURG, ORE.—Bids are asked until Nov. 4 for grading and improving with crushed stone in certain streets. D. S. West, Cy. Recdr.

REDDING, CAL.—G. Carr, J. C. Steele and others have been granted a franchise to build a wagon road, at an estimated cost of $20,000. The contract for grading will be let shortly.

RIVERSIDE, CAL.—Charles Quast has been awarded a contract for street improvements, at $2,035.

SMITH FALLS, ONT.—Bids are asked at once for constructing concrete sidewalks. B. E. Sparham, Town Clk.

TORONTO, ONT.—The following contracts for paving have been awarded: For asphalt paving, Barber Asphalt Co., $14,000; Construction & Paving Co., $2,924. For cedar block paving, Dominion Paving & Construction Co., $4,495; W. F. Grant & Co., $857. For macadam paving, Dominion Paving & Construction Co., $3,699; W. F. Grant & Co., $4,495.

MANUFACTURING PLANTS.

MADISON, ME.—Press reports state that a contract has been let to a Lewiston firm for constructing a pulp mill. The mill will have six machines. Work will be started at once.

SYRACUSE, N. Y.—The Marvin Electric Drill Co., 831 W. Fayette St., has increased its capital stock from $300,000 to $550,000, and will increase the output of its factory.

RAHWAY, N. J.—Reports state that the Merke Chemical Co. is about to award contracts for a large plant, consisting of three factory buildings, one 2 stories, 50 × 40 ft., another 2 stories, 96 × 32 ft., the third, 1 story, 150 × 230 ft., a 2-story storage building, 80 × 80, a 1-story boiler and engine house, 48 × 46 ft., a 1-story building for fuel, 150 × 230 ft., and a 2-story warehouse, 50 × 100 ft. The buildings will be of brick with gravel roofs.

FULLERTON, PA.—Winslow Wood, Secy., The Lehigh Foundry Co., writes us that the engine, boilers and electric machinery were not injured in the recent fire, and that plans are under advisement for new buildings. Iron castings are manufactured.

GREENVILLE, PA.—Improvements have been commenced on the local plant of the Shelby Tube Co. A billet mill will be installed which will make billets for the company's mills at Toledo and Shelby, O., Hartford, Conn., Auburn, Ind., and Ellwood City, Pa.

HOMESTEAD, PA.—Reports state that the Carnegie Steel Co. is preparing plans for a beam mill which will cost about $1,500,000. The plant will cover an area of almost 10 acres and will employ over 2,000 men. A new patent just perfected by the company for rolling steel beams will be used and construction work will commence almost immediately.

LAFAYETTE, PA.—Alfred Whitehead, 219 S. 16th St., Philadelphia, has been awarded a contract by the Newhall Engineering Co., to build a three-story, steel-framed stone factory at $50,000.

MONONGAHELA, PA.—The Crescent Blasting Co. will erect a large plant near Hazel Kirke for breaking up defective castings and armor plate. A concreted pit, 30 ft. long × 8 ft. deep, is being built and hydraulic cranes will be used to lower the castings into the pit, where they will be exploded. Jay Colvin has the contract for erecting the buildings.

PHILADELPHIA, PA.—Cramp & Co. have been awarded a contract for erecting a one-story brick and steel, slate-roofed hammer-shop building, 88 × 126 ft., for the Midvale Steel Co., Nicetown, at a cost of $20,000.

SHARON, PA.—The Sharon Sheet Steel Co. will build a large galvanizing plant in connection with the 10 sheet mills in course of erection. The plant will cost $200,000 and employ several hundred men.—The American Bridge Co. is preparing plans for an addition to the Walker works of the Shiffler Co., in West Homestead that will triple the capacity of that plant. The additions will cost $250,000.

BRUCETOWN, VA.—Reports state that the capacity of the Brucetown Woolen Mills will be doubled in the near future.

RICHMOND, VA.—Press reports state that the Continental Tobacco Co. will build a new factory in this city. The site has not yet been selected.

KINGS MOUNTAIN, N. C.—The Bonnie Cotton Mills will add 1,000 spindles during the fall.

ATHENS, GA.—A site has been purchased and work will be started at an early date for an ice plant, which, it is reported, will cost $30,000. C. N. Hodgson is interested.

GAINESVILLE, GA.—B. F. Taylor, Hawkinsville, has purchased the Gainesville Cotton Seed Oil Mill and will add a fertilizer plant and a ginnery at a cost of about $5,000.

HUNTSVILLE, ALA.—Reports state that a company has been formed, with $1,000,000 capital, to establish factories in the South, and that a cotton mill will be built here. Tracy W. Pratt is the Huntsville representative of the company.

HATTIESBURG, MISS.—The Gulf & Ship Island R. R. Co. has secured a site here and will establish its shops and yards. It is thought that the shops of the Mobile, Jackson & Kansas City R. R. Co. will also be located here when the road is completed.

VICKSBURG, MISS.—The Vicksburg Ice Co. expects to increase its plant from 60 to 80 tons capacity before the next ice-making season. C. C. Floweree is interested.

NASHVILLE, TENN.—It is reported that the Tennessee Phosphate Co. and the Globe Fertilizer Works, of Louisville, Ky., have been consolidated into a company, with $50,000,000 capital, and will erect a plant here.

SWEETWATER, TENN.—The Mascot Knitting Mill Co. will let contracts in a few days for a three-story brick mill building, which will employ 300 to 400 hands.

HENDERSON, KY.—The council has leased a site to the Crystal Ice & Storage Co. for a period of 25 years and a 75-ton commercial plant will be erected.

LOUISVILLE, KY.—The Federal Asphalt Co. has been organized with a capital of $5,000,000, $3,500,000 of which is paid in. The company owns 23,000 acres of land and 75 men are at work erecting a plant, and 300 men will be employed when it is completed. Nearly $1,000,000 will be expended for machinery, etc. A railroad is being surveyed to connect with the deposits. Joseph Huffaker, Vice-Pres., Louisville; M. D. Coffin, Pres., Chicago, Ill.

MENOMINEE, MICH.—The A. W. Clark Lumber Co. writes us that they have not yet decided to rebuild their plant which was recently destroyed by fire at a loss of $50,000.

CHICAGO, ILL.—Otto C. Meinhausen, Pres. American Copper, Brass & Iron Works, has purchased a 10-acre site at the corner of Wellington Ave. and Paulina St., and

will build a factory. Plans for the buildings have been completed and work will commence as soon as contracts can be let.

AUSTIN, TEX.—A company is being organized with a capital of $1,500,000 for the purpose of putting in a 500-ton smelting plant on the land of C. C. Wilson, near Llano.

SILVER CITY, N. MEX.—Reports state that the Silver City Beer & Ice Co. will erect a plant at Deming. Electric lights will probably be installed when plant is completed.

WIARTON, ONT.—The Colonial Construction Co., Montreal, has been awarded a contract for erecting the building and plant for a beet-sugar factory with 700 tons per day capacity at $350,000.

VANCOUVER, B. C.—The proposed plant of the Pacific Coast Portland Cement Co., which was originally planned to be of 500,000 barrels per day capacity, will probably be much larger. The plant will be operated entirely by electricity, the machinery for which will cost about $90,000. The cost of the plant as originally planned was expected to be about $400,000. All machinery will be purchased in the United States. J. Keith Fisher is interested and on his return from Europe, in about 30 days, the contracts will probably be let.

MISCELLANEOUS CONTRACTS.

ROAD ROLLER.—Needham, Mass.—The town has appropriated $2,850 for the purchase of a steam road roller.

LIGHT VESSEL.—Detroit, Mich.—Bids are asked until Oct. 1 by the light-house inspector for building light vessel No. 75.

DREDGE.—Portland, Ore.—J. B. C. Lockwood has been instructed to prepare plans and specifications for a 24-in. dredge, and to act as superintendent in building same.

ROOFING SLAG.—Jersey City, N. J.—Jacob Ringle & Son, 83 Newark Ave., writes us for the address of manufacturers of roofing slag, stating that they wish to buy a large quantity.

JETTIES.—Salinas, Cal.—Bids are asked until Oct. 8 for constructing jetty work at the San Lucas bridge; also for repairing and extending a jetty above the Soledada bridge. J. D. Kaler, County Clk.

IRON PIPE, ETC.—Cleveland, O.—Bids are asked until Oct. 2 for furnishing 8,700 ft. of 2-in. black wrought-iron pipe and malleable iron fittings in Brookside Park. Chas. P. Salem, Dir. Pub. Wks.

CREMATORY.—Oakland, Cal.—The Oakland Cremation Association has purchased a site and will erect a crematory to cost $25,000. A columbarium will also be erected. J. H. H. Brown, Mgr.

BOILERS.—Washington, D. C.—Bids are asked until Oct. 5 by the district commissioners for furnishing and erecting two 70-HP. steam boilers, of the water-tube type, as stated in our advertising columns.

BROKEN STONE, ETC.—Paterson, N. J.—Bids are asked until Sept. 27 for delivering broken stone and screenings on the High Mountain road. John Blauvelt, Chn. Road Com., Bd. of Freeholders.

LIGHT-HOUSES.—Mobile, Ala.—There was only one bid received on Sept. 18 by Lieut.-Col. A. N. Damrell, Light-House Engr., for constructing two beacons in Hillsborough Bay, Fla., that of J. C. McNeill, Tampa, Fla., $2,100.

BOILERS AND STEEL WORK.—Washington, D. C.—Bids are asked until Oct. 1 for furnishing a battery of boilers and a quantity of structural steel work at the Navy Yard, Norfolk, Va. A. S. Kenny, Paymaster-General, U. S. N.

SUMMER RESORT.—Denver, Colo.—A company is being formed and land purchased near Idaho Springs, where a summer resort will be developed, at a cost of about $750,000 for buildings, parks, etc. Miss A. S. Hazen is interested.

PIERS.—Sydney Mines, N. S.—Thos. I. Brown, Resident Mgr., Nova Scotia Steel & Coal Co., writes us that no contracts have been awarded as yet for building proposed piers at North Sydney, but that the engineering work is being forced along rapidly.

CANAL LOCK.—Southampton, L. I.—Lewis Edwards is promoting a scheme to build a lock 100 ft. long in the Shinnecock Canal at Quogue. A petition is being signed by residents asking that a part of the $30,000 appropriated for work on the canal be used for a lock.

DRY-DOCK.—New York, N. Y.—The final plans and specifications for the proposed dry-dock No. 4, to be built at the Brooklyn Navy Yard, have been prepared and sent to Washington for adoption. The dry-dock will be 550 x 90 ft. at the base and will cost nearly $1,000,000.

LAKE.—Youngstown, O.—A syndicate has been formed which intends to build a summer resort above Mill Creek Park. A lake three miles long and 1,500 ft. wide will be a part of the plan. The electric railways will be asked to connect with the resort. H. G. Hamilton is interested.

FIRE-ALARM BOXES, ETC.—New York, N. Y.—The Gamewell Fire-Alarm Co. was awarded a contract on Sept. 17 for supplying 50 fire-alarm boxes, at $4,125. At the same time the Standard Underground Cable Co. was awarded a contract for furnishing 40 miles of telegraph wire at $2,767.

TELEPHONE SYSTEM.—Cedar Rapids, Ia.—The Cedar Rapids & Marion Telephone Co. has applied for an extension and an amendment of its franchise, and if it is granted will erect a new building and make other improvements to cost from $80,000 to $100,000. A switchboard, to cost from $17,000 to $20,000, will be installed.

DREDGING AND PIER.—New York, N. Y.—Bids are asked until Oct. 4 by the board of docks, Battery Place, for dredging the North River from between the Battery and 159th St.; also for preparing for and building a wooden pier, with appurtenances at the foot of East 5th St.; also for furnishing granite stones for bulkhead or river wall.

RACE TRACK.—Geneseo, N. Y.—Reports state that J. S. Wadsworth is one of a syndicate which has purchased a site and will build a one-mile covered race track, racing stables and a grand stand. The track will cost $60,000, and is to be completed by next summer. The Delaware, Lackawanna & Western R. R. Co. will erect a station at the grounds.

MINE IMPROVEMENTS.—Phoenix, Ariz.—Press reports state that the Poland Mining Co. has started development work which will cost several million dollars. A tunnel has been started which will be 8,000 ft. in length when completed, and will have double tracks and cars operated by compressed air. Frank Murphy and E. B. Gage are interested.

BOILER, ETC.—Little Rock, Ark.—Bids are asked until Oct. 7 for building a boiler house, steam plant and laundry; for remodeling old steam plant and laundry building for an infirmary; for removing and rebuilding the smoke-stack; for making pipe tunnels, pipe extensions and removing and resetting two old and one new boilers; to furnish f. o. b. one 54 x 14 boiler with 64 3-in. flues and a steam dome, at the Arkansas School for the Blind. John H. Page, Secy. Bd. Trustees State Charitable Institutions.

REPAIRING WHARF.—Delaware City, Del.—The following bids were received by Capt. J. DeL. Lafitte, Constructing Q. M., on Sept. 17 for repairing the wharf and constructing a slip at Fort DuPont: Franklin K. Wills & Co., Wilmington, $3,495; H. C. Clark, Delaware City, $3,187; T. B. Ferguson, Lewisville, Pa., $4,400. It was recommended that the contract be awarded to H. C. Clark.

TELEPHONE SYSTEM.—Louisville, Ky.—The Independent Long Distance Telephone & Telegraph Co. of Kentucky has been incorporated, with $1,000,000 capital, and will construct a large plant here. Lines will be extended to all Kentucky towns and to all river towns in Indiana. President Sheerin, probably of Indianapolis, gives information that work will be pushed as rapidly as possible.

MONUMENT.—New York, N. Y.—The United Italian Societies have passed resolutions which insure the success of a plan to erect a monument to President McKinley. It will be located in one of the city parks and will cost $100,000. Celestino Peva is president of the society. An Italian paper is collecting money by subscription for a bronze Italian wreath to be sent to the Capitol, which will cost $2,000. The work of the sculptor, Moretti, will be given free.

SUBMARINE CABLE.—New York, N. Y.—The Commercial Pacific Cable Co. has been incorporated with a capital of $100,000, and will lay a cable from the Pacific coast to Hawaii, and from there to the Philippine Islands. The length of the cable will be 8,500 miles. It is expected that the first part from California to Hawaii, 2,200 miles, will be in operation within nine months. The directors are John W. Mackay, Clarence H. Mackay, Edward C. Platt and others.

FOREIGN CONTRACTS AND EXPORT NEWS

TURNTABLES.—Christiania, Norway.—Bids are wanted by the Norwegian State Railways until Oct. 2 for furnishing three turntables.

ELECTRIC TRACTION SYSTEM.—Pahiatua, New Zealand—Press reports state that an electric traction system will be installed in this town, at an estimated cost of $1,000,000.

RAILWAY.—Yucatan, Mex.—A charter and a concession has been procured from the National Government by Senor Canton, of Yucatan, for the construction of a railway from Peto to Chan Santa Cruz.

RAILWAY.—Hobart, Tasmania.—The newly appointed General Manager of the Tasmanian Rys., C. Hudson, is reported to be advocating the purchase of additional rolling stock and the extension of the existing property.

TRAMWAYS.—Buenos Ayres, Argentina.—The Buenos Ayres Electric Tramways, Ltd., has recently been incorporated in London for the purpose of constructing an electric traction system in this city. The company is capitalized at $1,250,000.

ELECTRIC LIGHTING.—Auckland, New Zealand.—It is reported that the municipal authorities have decided to sanction the lighting of the town by electricity. It is estimated that fully $200,000 will be spent in establishing the electric light system.

ELECTRIC LIGHT PLANT.—Madrid, Spain.—The La Sociedad San Francisco has been formed in Madrid with a capital of $250,000, for the purpose of constructing and operating a central electric light station at Villarrobledo, a town of 7,000 inhabitants, situated about 50 miles from this city.

POWER PLANT.—Monterey, Mex.—R. N. Oakman, of New York city, is reported to have received a concession for the construction of a gas and power plant in this city. It is stated that the equipment will represent a cost of several hundred thousand dollars, and will be purchased in the United States.

STREET RAILWAY.—City of Mexico, Mex.—M. Ramon Miranda y Maron, of this city, who has been recently granted a concession for the construction of a street railway in the suburb of the Mexican capital known as the Colonia Americana, has applied to the council for an extension of time to carry out the project.

ELECTRIC TRACTION SYSTEM.—Cadiz, Spain.—Dona Valentura Godillot de Moreau, of this place, is reported to have received a concession for the construction of an electric traction system to run from Cadiz, population 80,000, to San Fernando and La Carrara, a distance of eight miles. A new central lighting station is also to be established in Cadiz.

MINING AND RAILWAY.—Sonora, Mex.—The Mexican Anthracite Coal & Mining Co., composed of San Francisco and Pennsylvania capitalists, has secured title to 3,000,000 acres of land in the State of Sonora. The company has made arrangements for the construction of 32 miles of railway between its mines and Herniosillo and Guaymas. J. T. Clark, of Pennsylvania, is manager of the property.

MACHINES AND SUPPLIES.—Milan, Italy.—An Italian firm of engineers of this city intend to introduce American machinery, especially turning lathes, machines for working iron and wood, machines for the typographic and lithographic arts, and all utensils used in mechanical shops, such as files, tongs, borers, trepans, etc. Parties interested in the furnishing of the materials may address John Muller, of Milan.

RAILWAY.—London, England.—Charles T. Yerkes, of New York and Chicago, has secured control of the projected Brompton-Piccadilly Tube R. R., capitalized at £2,100,000. Work will begin at once. The road will be worked in conjunction with Mr. Yerkes Charing Cross-Hampstead line and the District Ry. It will be about two miles long, and will be completed by 1905. Robert William Perks, M. P., 11 Kensington Palace Gardens, will probably be Chairman of the new road.

ELECTRIC TOWAGE.—Russia.—The Russian Ministry of Ways and Communication is reported to have appointed a special commission for the purpose of discussing the project suggested by a syndicate of foreign capitalists to install a system of electrical towage on the Ladoga Canal. The syndicate's plans include the erection of works which will not only supply the necessary energy for towing purposes and for lighting the canal, but which will be capable of supplying manufacturers and St. Petersburg itself with electrical power.

TRACTION SYSTEM.—Christchurch, New Zealand.—Reports state that the city council proposes to build an electric traction system and to generate the necessary power from the River Waimakariri. Robt. Hay, M. Inst. C. E., who recently reported on the proposed scheme, considered it a feasible one, and estimated the cost of the work from the intake at the Waimakariri race to the termination of the race at about $275,000. To this amount, however, would have to be added the cost of iron pipes, and turbines, with foundations for same, and turbines with connections, generators, switchboards, transformers, exciters, meters, buildings, etc. Mr. Hay recommends the council to lease or sell the concession to a private syndicate to carry out, reserving the right of purchase.

RAILWAY.—Alaska.—The Trans-Alaskan Ry. Co., has been incorporated under the laws of the State of Washington with a capital stock of $50,000,000, to build and operate a line of railways in Alaska to connect with the Trans-Siberian R. R. at some point opposite Cape Prince of Wales, on the American side, by a line of steel ferry-boats across Behring Strait. The company will have its headquarters at Seattle, Wash. J. J. Frey, Pres. Florence & Cripple Creek, and Cripple Creek Consolidated line, is President; A. L. New, Vice-Pres. and Treas.; F. S. Granger, Gen. Mgr.

COLD-STORAGE PLANTS.—Buenos Ayres, Argentina.—The "Handelszeitung" of Buenos Ayres, states that the estancieros, or the land proprietors of the Province of Santa Fe have taken preliminary steps towards the establishment of refrigerating works, to be named the "Rio Parana." The cattle breeders of the Province of Buenos Ayres have formed a like company for building a cold-storage plant called the "Frigorifico Argentino." The capital stock has already been subscribed. It is reported that the Compania "Sausinena" will erect another refrigerating establishment at Bahia Blanca.

ELECTRIC TRAMWAY EQUIPMENT, ETC.—Newport, England.—Bids are reported wanted by the Corporation of Newport until Oct. 21 for supplying and erecting trucks for outside coal handling, piping, switchboard, cables, cableways, overhead construction, complete electric motor car and repair shop equipment in connection with the city's tramways and power supply. A bank draft for £2 2s., payable to Charles Cullum, Borough Treas., Newport, must accompany the application for specifications and form of tender for each item. H. F. Parshall, Consulting Engr., 8 Princes St., Bank, London, E. C.

ELECTRIC TRAMWAY.—Guayaquil, Ecuador.—Consular reports state that the municipal council at Guayaquil has recently granted to a syndicate a charter authorizing the construction of an electrical tramway system in this city of some 50,000 inhabitants. The charter permits the use of any of the streets of the city and provides for the construction of a new race course, including a bicycle track, in the suburbs of the town. It also grants the use of electricity for lighting and power. The concession runs for 35 years, at the end of which time the tram and race course will revert to the city without compensation. At present, Guayaquil has a very poor mule-car system. The principal streets of the city are lit by gas of an inferior quality and some sections by kerosene lamps. The mule-car system will probably be bought out and absorbed by the new company, which is now seeking capital in the United States. The matter is worth the attention of those interested in this line of business.

RAILWAYS.—China.—The "Journal of Commerce" says: The Compagnie Francaise de Chemins de Fer de l'Indo-Chine et du Yunnan is the title of a company recently formed by a syndicate of Parisian bankers for the purpose of constructing railroads in the Far East. The railway upon which the concession is based will have a total length of 528 miles, of which 238 miles will be situated in Tonquin and 290 miles in China. It is provided by the concession that the section on Chinese territory shall be constructed and worked by the company, while that in Tonquin will be built by the Colony, and its operation entrusted to the company. The share capital of the company amounts to $2,500,000, of which only $1,500,000 is required for the time being. In addition to this, the Colony grants a subsidy of $2,500,000, and the French government over $15,000,000 in the form of an annuity, so that the funds at the disposal of the company will amount to upward of $20,000,000. It is expected that this sum will be ample for the construction and equipment of the Chinese section of the railway, which is to be built by a construction company specially formed for the purpose.

RAILWAYS.—Turkey.—A railway is reported planned connecting Damascus with the Holy Places of Islam. The Damascus-Biredjik projected railway comes within 40 miles of the projected Bagdad Ry. at Urfa, and this is the point at which a junction may be effected. The Bagdad route is net yet settled. The route to be followed by the Hedjez Ry. is the ordinary caravan route, and it is proverbial in that part of the world that a camel track is the best line for a railway to follow, the reason being that as camels are practically useless in hilly country the line followed by caravans is pretty sure to have none but easy gradients. The estimated cost of the road is not far short of $40,000,000. Contracts for rails have been placed with a Belgium firm after having been allotted to the Carnegie Steel Co. and abandoned by them. From Konia a concession is said to have been promised to a German group of capitalists for a line through Adana, Marash, Urfa, Mardin and Mossul to Bagdad, and thence down the valley of the Euphrates to the Persian Gulf. This is the much-talked-of Bagdad Ry. The line will cost the sum of $100,000,000 to build, the sum required for the payment of interest will be $10,000,000 per annum. The Bagdad scheme includes the construction of a short line from Adana to Youmourtalik on the western shore of the Gulf of Alexandretta, and this invades the territory of the (French) Mersina-Adana Ry., a short line of 67 kilometers in length. The company is French. A concession is stated to have been granted some time ago to a Belgium financier for the construction of a line connecting Sivas with the seat at Samsun. The former place is stated to be the center of a large grain-producing district and at present the bulk of the produce of Yozgat and the neighborhood is conveyed by road.

RAILWAY.—Mexico.—Advices from Mexico state that American capitalists have secured a concession for the construction of a railway to run from San Geronimo, on the National Tehuantepec Ry., in the State of Oaxaca, to the frontier of Guatemala, southward of Tapachula, Mex., to be known as the Pan-American Ry., the concessionaire company to be known as the Pan-American Ry. Co. of Nebraska. It is probable that E. S. Pionikowsky will be appointed chief engineer and that the surveys for the location of the road will commence early in November and construction will be undertaken immediately after the approval of the plans by the department of communications and public works. In compliance with the concession the company will have its official headquarters and representatives in the City of Mexico, while the business office for the commencement of work and general correspondence will be at Tonala, in the State of Chiapas, and the American office will be in Chicago. The initial road will be about 500 kilometers in length, with a branch to Tuxla Gutierrez, the capital of the State of Chiapas, and will follow the foot hills of the west coast to that state. Although the line of railway granted under the concession just issued to the Everett Syndicate comprises especially the railway from the Isthmus of Tehuantepec to Guatemala, the project of the Pan-American Co comprises the organization of a continuous railway connecting from the United States to Mexico, Central America and down to South America, as indicated by the com-

pany's title, availing itself, where it can, of existing roads and, where necessary, building. The concession carries a federal subsidy of $12,000 per kilometer, and to this subsidies from the States of Chiapas and Oaxaca will, it is said, be added in due course. The officers of the company are Walter Everett, Pres.; Franklin Everett, Vice-Pres.; Fremont Everett, Treas.; J. M. Neeland, Gen. Mgr.

CONTRACT PRICES.

STREET IMPROVEMENTS.—Birmingham, Ala. — The following bids were received by Julian Kendricks, Cy. Engr., on Sept. 18, 1901, for the following street work: (1) bid of Dunn & Lallande Bros., (2) J. E. Donelson, (3) C M. Burkhalter & Co.; (4) Southern Paving & Construction Co.; (5) Coaldale Paving Brick Co.:

Grading, Macadamizing, Curbing and Paving Brick Gutters of 20th and 22d Sts.

		1.*	2.	3.
Excavation	4,500 cu. yds.	$0.30	$0.30	$0.31
Under pipes	100 " "	2.00	2.25	2.50
Slag	1,800 " "	.70	.75	.75
Chert	1,800 " "	1.12	1.10	1.15
Brick gutter paving.	350 sq. yds.	1.20	1.30	1.30
6-in. curb straight.	3,000 lin. ft..	.49	.49	.50
6-in. " circular.	200 " "	.58	.65	.60
12-in. drain pipe....	100 " "	.45	.50	.50
15-in. " "	100 " "	.65	.70	.70
18-in. " "	100 " "	.75	.85	.80
24-in. " "	100 " "	1.25	1.30	1.30
Total		$7,142	$7,295	$7,470

The following are the bids of C. B. Burkhalter & Co. on operation in Charles Ave.: Excavation, 5,000 cu. yds., 30 cts.; slag, 1,400 yds., 75 cts.; chert, 1,400 yds., $1.20; brick gutters, 1,500 sq. yds., $1.30; 6-in. granite curb (straight), 4,000 lin. ft., 50 cts.; same, circular, 300 ft., 60 cts.; 12-in. drain pipe, 100 ft., 45 cts.; 15-in., 100 ft., 65 cts.; 18-in., 100 ft., 75 cts.; 24-in., 100 ft., $1.25; excavation under pipes, 100 cu. yds., $2; rock excavation, 100 yds., $1. Total, $8,970. Received award.

For Sewers in Alleys C, D and E, and Ave. J.

		1.*	3.
8-in. sewer pipe, 0 to 5 ft.	600 lin. ft..	$0.30	$0.30
" " " 5 " 7 "	3,300 " "	.45	.45
" " " 7 " 9 "	2,500 " "	.57	.67½
" " " 9 " 11 "	600 " "	.68	.75
Manholes	10 each...	25.00	25.00
Y branches	500 " ...	.35	.50
Total		$3,923	$4,302

For Brick Paving in 21st St.

		4.*	5.	3.
Brick paving	18,000 sq. yds.	$1.62	$1.625	$1.75
Cement sidewalk ..	50 " "	1.50	1.52	1.50
Mhl cvrs fur & set.	5 each...	7.00	6.00	25.00
Curbing (circular).	200 lin. ft..	.49	.47	.50
Relining curbing ..	2,000 " "	.04	.055	.075
Resetting curbing..	2,000 " "	.02	.03	.075
Inlets rebuilt	6 each...	7.50	8.00	10.00
Total		$29,533	$30,208	$32,160

For Sidewalks in 2d, 3d, 4th, 5th and 6th Aves., and 14th, 15th, 16th, 17th and 18th Sts.

Bidder.	Cement, 21,000 sq. yds.	Vitrified brick, 1,200 sq. yds.	Total.
H. E. Manville & Co.*	$0.89½	$1.18	$20,211
Stamsen & Blome	.93⅘	1.16	21,090
Byron Sanders	.95⅞	1.10	21,454
Birmingham Paving Co.	1.30	1.50	29,100

For Sidewalks in Arlington, Morris, Park, Highland, K, N. 1st, 8th and 12th Aves., and in 19th, 20th, 22d, 23d and 24th Sts.

Bidder.	Cement, 12,500 sq. yds.	Vitrified brick, 200 sq. yds.	Total.
H. E. Manville & Co.*	$0.94	$1.18	$11,986
Stamsen & Blome	.94⅜	1.16	12,028
Byron Sanders	.99⅞	1.20	12,724
Schillinger Bros. Asp. Co.	1.08	2.25	13,950
J. E. Donelson	1.10	1.40	14,030

For Sidewalks in Aves. A, C, D, E, F, G, H, J, K, Humboldt, Quinlan and 6th, and 11th, 12th, 13th, 21st, 22d, 23d and College Sts.

Bidder.	Cement, 16,000 sq. yds.	Vitrified brick, 800 sq. yds.	Total.
Stamsen & Blome*	$0.94⅜	$1.16	$16,028
Byron Sanders	.97½	1.20	16,560
H. E. Manville & Co.	1.00	1.22	16,976

*Awarded contract.

ROAD WORK.—Bridgeport, Conn.—Bids were received by the streets and sidewalks committee on Sept. 12, 1901, as follows for building the extension of East Main St.; (1) The D. B. Pierce, Jr., Co., (2) The Williams & Dewhurst Co.: Earth excavation, (1) 39 cts. cu. yd., (2) 37.5 cts.; rock excavation, (1) $3.95, (2) $3.85; macadam road, (1) $1.29 per running ft., (2) $1.25; Telford, (1) $1.90, (2) $1.85.

BRIDGE WORK.—Stroudsburg, Pa.—The following bids have been received for the stone work for the Warrentown bridge, to be erected in Coalbaugh Township: John Shipper, $3.45 per perch; Shiffer Bros., $3.43; Davis Hartman, $2.93 (accepted).

CANAL WORK.—Chicago, Ill.—The following bids were received by the U. S. Engineer Office at Chicago on Sept. 3, 1901, for constructing four miles of the western section of the Illinois & Mississippi Canal; (1) being mile 29, 35,789 cu. yds.; (2) mile 30, 99,513 yds.; (3) mile 31, 113,137 yds.; (4) miles 32, 112,043 yds.: Solomon P. Bennett, Atkinson, Ill., (1) 11¼ cts., (2) 11¼ cts.; John J. McCaughey, Chicago, Ill., (1) 13.46 cts., (2) 9.79 cts., (3) 11.42 cts., (4) 11.79 cts.; Flynn Bros., Annawan, Ill., (1) 19 cts., (2) 15.4 cts., (3) 22 cts., (4) 12.4 cts.; Pound Construction Co., Chicago, (1) 25 cts., (2) 19 cts., (3) 25 cts., (4) 25 cts.; Kats & Callahan, Omaha, Neb., (1) 11¾ cts., (2) 11¾ cts., (3) 15.9 cts., (4) 12.9 cts.

DREDGING.—Philadelphia, Pa.—The following bids were received by Wm. C. Haddock, Dir. Pub. Wks., on Sept. 17, 1901, for dredging the channels of the Schuylkill and Delaware Rivers, the contract calling for the removal of 100,000 cu. yds. a month: Bowers Hydraulic Dredging Co., removal of material in Delaware and Schuylkill rivers, 28 and 30 cts. a cu. yd., respectively; between Girard Point and Penrose ferry bridge, 55 cts.; removing ledges, $15; time, 12 months; Virginia Dredging Co., Delaware and Schuylkill rivers, 29 cts. each; between Girard Point and Penrose ferry bridge, 41 cts.; removing ledges, $15; time, 11 months; American Dredging Co., Delaware and Schuylkill rivers, 23 and 26.9 cts., respectively; between Girard Point and Penrose ferry bridge, 44½ cts.; removing ledges, $10; time, 10 months.

ASPHALT PAVING.—Des Moines, Ia.—The following bids were received on Sept. 19, 1901, for paving in this city with asphalt, approximately 2,398 sq. yds.: Bermudez Asphalt Paving Co., Chicago, Bermudez asphalt, $2.02 per sq. yd.; Capital City Brick & Pipe Co., Des Moines, Ia., Trinidad asphalt, $1.99; Alcatraz, $1.99; Bermudez, $2.10.

DREDGING.—Savannah, Ga.—The following bids were received by Capt. Cassius E. Gillette, U. S. Engrs., Savannah, on Sept. 16, 1901, for dredging in Savannah Harbor; estimated quantity 200,000 cu. yds.: C. D. Collins, Savannah, 17½ cts.; P. Sanford Ross, Inc., Jersey City, N. J., 14.9 cts.

ASPHALT PAVING.—Kansas City, Mo.—The public improvements committee awarded the following contracts for paving, etc., on Sept. 12, 1901: Barber Asphalt Paving Co., for repairing the pavement in Independence, 14th, Olive, Prospect and 10th Sts., at $1.50 per sq. yd.; paving with asphalt in 11th St., $2.12; total, $8,020; Park St., $2.15; $3,341; Parker-Washington Co., Penn St., $2.15; $1,949; Southerland Stone Co., curbing in Chestnut St., $571; 31st St., $778.

CULVERT.—Berkeley, Cal.—Lindren & Hicks were awarded a contract on Sept. 12, 1901, by the town trustees for constructing a concrete and stone culvert in Strawberry Creek, at $13 per lin. ft.

ASPHALT PAVING.—Albany, N. Y.—The board of contract and supply has received the following bids for paving with asphalt in Broadway in front of the new Union Station: Metropolitan Asphalt Co., $2.19 per sq. yd. (accepted); Warner-Quinlan Asphalt Co., $2.90.

ASPHALT PAVING.—Columbus, O.—The following bids were received by the board of public works on Sept. 16, 1901, for the asphalt pavement of Town and Goodale Sts., and for furnishing, during the year 1902, of 400,000 paving blocks for street repairs: Town St., lowest bid, Ayers Asphalt Co., Zanesville, $1.30 per sq. yd.; Goodale St., lowest bid, N. B. Abbott, $1.39; for furnishing 400,000 paving blocks, the T. B. Townsend Paving Co., $12.50 per 1,000; the Nelsonville Sewer Pipe Co., $13.50; Athens Brick Co., $12.50.

SEWER WORK.—Augusta, Me.—The city has just contracted with E. R. Been for sewer work at the following prices: Excavation, back filling, etc., 8-ft. cut, 35 cts. per cu. yd.; 8 to 14-ft. cut, 65 cts.; 14 to 20-ft. cut, $1.05; gravel refilling, 80 cts.; concrete masonry, natural cement, $5 cu. yd.; catchbasins complete, 7 ft. high, 4.5 ft. diameter at bottom, 2-ft. grate, $45.50; pipe sewer, including branches, etc., 6-in., 16 cts. per lin. ft.; 8-in., 22 cts.; 10-in., 28 cts.; 12-in., 40 cts.; 15-in., 55 cts.; manholes, 6 ft. deep, $37.50; each additional foot, $5.50.

SEWER.—Oshkosh, Wis.—The board of public works received the following bids on Sept. 16, 1901, for the Murdock St. sewer, (1) double 24-in. pipe, (2) single 24-in. pipe, (3) 15-in. pipe, (4) 12-in., (5) 10-in., (6) siants, (7) manholes level with grade, (8) manholes 2 ft. above grade, (9) catchbasins: L. Larson & Co., (1) $2.34 per lin. ft., (2) $1.475, (3) 70 cts, (4) 65 cts., (5) 50 cts., (6) $1.75, (7) $30, (8) $32, (9) $34; Robert Doyle, (1) $2.45, (2) $1.75, (3) 80 cts, (4) 75 cts., (5) 65 cts, (6) $1.90, (7) $40, (8) $45, (9) $37; J. Rasmussen & Son, (1) $2.80, (2) $1.80, (3) 80 cts., (4) 70 cts., (5) 60 cts., (6) $1.75, (7) $43, (8) $47, (9) $40; Chris Johnson, (1) $2.95, (2) $1.75, (3) $1.10, (4) $1, (5) 85 cts., (7) $35, (9) $35; Harding & Nelson, (1) $3.09, (2) $1.95, (3) $1.05, (4) 90 cts., (5) 87 cts., (9) $45.

SEWERS.—Wallingford, Conn.—The following bids were received on Sept. 17, 1901, for the South Orchard St. sewer, (1) 12-in. pipe, (2) 10-in. pipe, (3) manhole complete, (4) rock excavation: Leonard & Hall Co., (1) $1 per lin. ft., (2) 50 cts., (3) $47, (4) $3 per cu. yd.; M. J. Brennan, (1) $1.06, (2) 80 cts., (3) $50, (4) $2.50; McCormick Co. (contract awarded), (1) 94 cts., (2) 49 cts., (3) $45, (4) $2.75.

STREET WORK.—San Francisco, Cal.—The board of public works awarded a contract to Williams, Belser & Co. on Sept. 6, 1901, for street work at the following prices: Stone curbing, $1.12 per lin. ft.; basalt block gutterway, 58 cts. per lin. ft.; basalt block pavement, 19 c.s. sq. ft.

BRICK PAVING.—Indianapolis, Ind.—The board of public works awarded the following contracts on Sept. 17, 1901, for paving: W. K. Cooper & Co., for paving roadway of alley north of 30th St. with brick, $1.21 per lin. ft. from each side; Capital Paving & Construction Co., Adelaide St., $1.28; Rogers & Dunlop, for paving with cement and curb sidewalks of Arrow St., $1.29¾ per lin. ft.; A. D. Bowen, sidewalk of Washington St., $2.43; Henry Maag, cement sidewalks in various streets, 62 cts., 64 cts., $1.24, 40 cts., 52 cts.

ASPHALT PAVING.—Newark, N. J.—The following bids were received by the street and water commissioners on Sept. 19, 1901, for paving, (1) James Serner, (2) T. A. O'Connor, (3) J. F. Shanley, (4) D. Harper, (5) Barber Asphalt Paving Co., (6) Essex Paving & Contracting Co., (7) U. S. Wood Preserving Co.: De Graw Ave., from Elmwood to Verona Aves., telford, sq. yds., 9,400; granite, 275 sq yds.; brick, 1,880 sq. yds.; (1) telford, 97 cts.; granite, $1.90; brick, $2.10; (2) $1.25, $2.20, $2.15; (3) $1.18, $2.10, $2.10; Lincoln Ave., telford, 9,100 sq. yds., granite, 80 sq. yds.; brick, 3,000 sq. yds.: (1) 97 cts., $1.90, $2.10, (2) $1.35, $2.20, $2.15; (4) granite, $2.25; brick, $2.25 and $2.15; (3) $1.18, $1.99, $2.10; asphalt, 12,000 sq. yds.: (3) $2.12; (5) $1.92; (6) $1.75; Ridge St., telford, 2,700 sq. yds.; brick, 500 sq. yds.: (1) 97 cts., $2.10; (2) $1.25, $2.15; Parker St., telford, 2,700 sq. yds.; brick, 500 sq. yds.: (1) 97 cts., $2.10; (2) $1.25, $2.15; (3) $1.18, $2.10; Highland Ave., telford, 5,600 sq. yds.; granite, 3,180; brick, 830: (1) 97 cts., $1.90, $2.10; (2) $1.20, $2.20, $2.15; (3) $1.25, $2.20, $2.10; Montclair Ave., telford, 5,600; granite, 3,180; brick, 830: (1) 97 cts., $1.90, $2.10; (2) $1.25, $2.00, $2.15; (3) $1.18, $2.10 and $1.88, $2.19 and $1.89; (4) granite, $2.00; Pennington St., granite, 6,100; asphalt, 6,200: (4) granite, $1.80; (2) granite, $1.95; (3) granite, $1.80; (5) asphalt, $1.92; (6) asphalt, $1.75; Franklin St., wood: (7) 2½ × 3 × 6-in. block, $2.42 per sq. yd.; 4 × 4 × 8-in., $2.92.; (3) 2½ × 3 × 6-in., $2.70; 4 × 4 × 8-in., $3.20; asphalt, 2,500 sq. yds., (5) $1.92; (6) $1.75; Lake St., telford, 9,400 sq. yds.; granite, $2.30; brick, 1,930: (1) 97 cts., $1.90, $2.10; (2) telford, $1.25; brick, $2.15; (3) $1.18, $2.10, $2.10.

INDUSTRIAL NOTES.

THE ROGERS LOCOMOTIVE WORKS, Paterson, N. J., has an order for six mogul engines for the Hokkaido Government Railway, Japan, placed by Okura & Co., 11 Broadway, New York.

THE UNION STEAM PUMP CO., Battle Creek, Mich., announces a convention of its selling agents and representatives throughout Canada and the United States at Battle Creek, Sept. 24, 25 and 26.

THE FISHER & SAXTON CO., Washington, D. C., has just shipped a second consignment of four secondary mixers for concrete to J. G. White & Co., New York, packed for export to New Zealand.

THE BRADLEY FERTILIZER CO., Boston, reports a large number of orders from Portland cement makers, including 24 Griffin mills for the Great Northern Portland Cement Co., and 22 Griffin mills for the Lehigh Portland Cement Co., for its new works in Indiana, and 12 mills for the Indiana Portland Cement Co.

THE ROLLER BEARING & EQUIPMENT CO., Keene, N. H., announces the appointment of Mr. Joseph H. Washburn as manager of the company. Mr. Washburn was formerly connected with the Ball Bearing Co., Boston, as assistant to W. S. Rogers, Manager. Mr. Rogers is now Vice-President of the Keene company.

THE BROWN HOISTING MACHINE CO., Cleveland, O., with export offices at 26 Cortlandt St., New York, has an order for a 10-ton electric crane for the Barrow-on-Furness plant of Vickers' Son & Maxim, England, and an order for coal-handling machinery for the Brisbane docks for the Queensland government. It is reported that the two contracts amount to about $140,000.

CRANE CO., Chicago, has added to its plant in New York city, a building, 100 × 125 ft., to be devoted to the cutting, threading and flanging of large and small pipe and to pipe bending. It is located at 497 to 505 Cherry St., connecting in the rear with the pipe storage warehouse, at 742 and 744 Water St., and being opposite the main warehouse at 490 and 502 Cherry St. It is directly on the East River, and very conveniently located for handling heavy work.

WATER-WORKS APPLIANCES.—The following firms had exhibits at the annual convention of the New-England Water-Works Association at Portland, Me., last week: Hersey Mfg. Co., South Boston, Mass.; National Meter Co., New York; Neptune Meter Co., New York; Thomson Meter Co., Brooklyn; Union Meter Co., Worcester, Mass., Garlock Packing Co., Boston, Mass.; A. P. Smith Mfg. Co., Newark, N. J.; Henry F. Jenks, Pawtucket, R. I.; Lead-Lined Iron Pipe Co., Wakefield, Mass.; J. B. Campbell Brass Works, Erie, Pa.; Sumner & Goodwin Co., Boston, Mass.; agents for Mueller Mfg. Co., Decatur, Ill.; Coffin Valve Co., Boston, Mass.

THE IRON CITY ENGINEERING CO., successors to Fessenden & Ridinger, 410 Penn Ave., Pittsburg, have just closed a contract at College Hill, Beaver Falls, Pa., consisting of a 50-HP. Walrath gas engine, a 30-K-W. Warren inductor generator, a switchboard manufactured by the Crouse-Hinds Electric Co., 20 Manhattan Series A. C. enclosed arc lamps, and pole line covering entire town; and also a contract at Uniontown, Pa., consisting of four 150-HP. tandem compound direct-connected Ball engines, four 100-K-W. Crocker-Wheeler generators, one 6-panel switchboard manufactured by the Crouse-Hinds Electric Co., also conduit and wiring for the 12 floors of the building.

STAMSEN & BLOME, Unity Building, Chicago, report the following more important contracts awarded them during the last 30 days: Concrete work of the Auditorium Annex Hotel, comprising some 130,000 ft. of concrete floors; concrete work of the Brock & Rankin building; concrete foundations and floors of the Moxley Butterine plant; concrete foundations, floors, and sidewalk of the Bullen & Co., 48 drum malthouse, all of Chicago. Also 12,000 ft. of combined curb and gutter for the city of Kewanee, Ill., and the concrete fireproof construction and cement floors of the Western Tube Works plant at the same place. Concrete foundations of a large stock house for the Gund Brewing Co., La Crosse, Wis. Also 148,000 ft. of cement sidewalks, at Birmingham, Ala., and additional contracts for walks at La Porte, Ind., making the total of contracts there 200,000 ft.

THE ELECTRIC FIREPROOFING CO., whose local plant is at 19th St. and East River, New York, has just completed Canadian works at Cote St. Paul, where the company has 60 acres of land along the Lachine Canal. At Montreal, Sept. 12, a public demonstration was witnessed by city officials, architects and others, with two buildings, each 11 × 11 ft. and 30 ft. high. Both were erected of mahogany, cherry, ash, birch and oak, and shavings and firewood saturated with kerosene were heaped high about them. The one erected of wood treated by the company is claimed to have been found absolutely intact after being in the midst of flames for over an hour, while the other of course was burned quickly to the ground. The directors of the Canadian works are Col F. C. Henshaw, Hon. A. A. Thibaudeau, Jas. W. Pyke, R. Wilson-Smith, W. Herbert Evans, J. Hayden Hersey, of Toronto, and Humes Hall, of New York.

NEW COMPANIES.—Brookfield Pressed Brick & Tiling Mfg. Co., Brookfield, Mo.; $10,000; J. M. Proctor, T. P. Owners, H. Degraw.

Bakersfield Brick Co., Bakersfield, Cal.; $10,000; A. C. Bowman, A. J. Taylor, A. M. Irish.

Fouts Dredging Co., Portland, Ore.; $40,000; W. S. Hufford, T. E. Wilson, G. S. S. Fouts.

Ballston Construction Co., Amsterdam, N. Y.; $10,000; W. Barlow-Dunlap, Robert R. Reed, John I. Christman.

Brownsville Land & Irrigation Co., Dallas, Tex.; $250,000; John M. Johnson, W. H. Leake, W. R. Ratcliffe.

Aetna Cement Plaster Co., Kansas City, Mo.; $25,000; D. P. Thomas, S. Howard McCutcheon, R. M. Brackett.

New York Estimating, Engineering & Contracting Co.; $10,000; J. H. Robertson, R. K. Haines, W. E. Wooden.

Lombard Governor Co., Corporation Trust Co. Bldg., Jersey City, N. J.; $500,000; machinery; Joseph Bennett, Homer Loring, K. K. McLaren.

Hall Bascule Bridge Co., Chicago, Ill.; $100,000; C. F. Hall, L. M. Cahn, S. D. Holzheimer.

California Liquid Asphalt Co., San Francisco, Cal.; $10,000; E. F. Smith, A. W. Grant, J. F. Fassett.

Contract Co., New York, N. Y.; $10,000; L. E. Thorn, F. B. Esles, H. D. McGowan.

American Tie Plate & Rail Brace Co., Jersey City, N. J.; $1,000,000; K. K. McLaren, Frank H. Smith, Jr., Sidney Sergent.

Texas Portland Cement Co., Galveston, Tex.; $300,000; Joseph Levy, James T. Taylor, M. Marx.

NEARLY EVERY PROMINENT CONTRACTOR and Manufacturer of Contractors' Supplies READS ENGINEERING NEWS.
Avail Yourself of this Paper when Bids are Wanted for Construction or for Furnishing Supplies.

Sup

PERSO
Obit
ENGIN
Con
TRADI
CONST
Con
Ra
Str
Ele
Bri
Bu
Wa
Se
Ga
St
Ma
Co
Mi
Fo
Er
INDU

Mr
point
Mr
Con
Lak
Mr
of t
ville
Mr
was
Wa
M
arc
mo
M
Ce
of
ch
No
of
at
ta
s
P
p